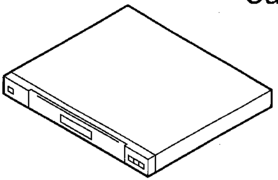
DSC-1024G

SERVICE MANUAL

US Model
Canadian Model
AEP Model
Chassis No. SCC-J91B-A



SPECIFICATIONS

Signal input

VIDEO 1 IN	Composite video/reference input BNC connector × 2 (loop-through), 75 ohms (automatic termination) $\text{NTSC}_{3.58}$/$\text{PAL}_{4.43}$, 1 Vp-p typical Black burst signal for the gen-lock function* S video (Y/C) 4-pin mini DIN connector × 2 (loop-through), 75 ohms (automatic termination) Y: 1 Vp-p typical, sync negative C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) typical
VIDEO 2 IN	Composite video BNC connector × 2 (loop-through), 75 ohms (automatic termination) $\text{NTSC}_{3.58}$/$\text{PAL}_{4.43}$, 1 Vp-p typical S video (Y/C) 4-pin mini DIN connector × 2 (loop-through), 75 ohms (automatic termination) Y: 1 Vp-p typical, sync negative C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) typical
VIDEO 3 IN	RGB/component D-sub 15-pin, 3-row connector × 2 (loop-through), 75 ohms/high impedance R/G/B: 0.714 Vp-p (sync on G acceptable) H/V or composite sync: 1 to 5 Vp-p Y/R-Y/B-Y: 0.7 Vp-p typical (NTSC/PAL, sync on Y)
AUDIO IN 1, 2, 3 (L/R)	RCA pin jack, more than 10 kilohms 0 dBs (1 Vrms) max.

Video processing

Capture range	Horizontal rate: 15.6 to 70 kHz, Vertical rate: 50 to 120 Hz
Preset signal	Input: 10 formats Output: 6 formats Gen-lock output: NTSC or PAL (See page 47.)
Video memory	1,152 × 1,152 × 24 bits (RGB total)
Sampling rate	14.3 to 40 MHz offset phase max. (equivalent to 80 MHz sampling)
Output pixel clock	14.3 to 50 MHz max.

General

Power requirements	100 to 120 V AC, 50/60 Hz, 0.4 A 200 to 240 V AC, 50 – 60 Hz, 0.25 A
Power consumption	30 W (max. in operation) 3 W (power off)
Operation temperature	0 to 35°C (32 – 95°F)
Dimensions	424 × 44 × 354 mm (w/h/d) ($16\frac{3}{4} \times 1\frac{3}{4} \times 14$ inches) excluding bracket and legs
Mass	Approx. 4.1 kg (9 lb 1 oz)
Supplied accessories	AC power cord (1) Signal cable (1)

Optional accessories

Rack mount bracket MB-510
SMF-400: D-sub 15-pin (male) to 5 BNC cable
SMF-401: D-sub 15-pin (male) to D-sub 15-pin (male) cable
Remote commander RM-854, RM-1271, RM-PJ1292, RM-PJ350

*** Note on the gen-lock function**

The reference signal should comply with SMPTE 170M (NTSC) or ITU-R624 (PAL).

MICROFILM

Digital Scan Converter

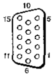
SONY®

Signal output

VIDEO OUT	Composite video BNC connector, 75 ohms typical $NTSC_{3.58}$/$PAL_{4.43}$, 1 Vp-p typical S video (Y/C) 4-pin mini DIN connector, 75 ohms typical Y: 1 Vp-p typical, sync negative C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) typical RGB/component D-sub 15-pin, 3-row connector, 75 ohms typical R/G/B: 0.714 Vp-p with external sync H/V or composite sync: TTL sync negative Y/B-Y/R-Y: 0.7 Vp-p typical (sync on Y)
AUDIO OUT (L/R)	RCA pin jack Audio gain: ± 1.0 dB typical Total harmonic distortion: less than 1 %, 1 Vrms

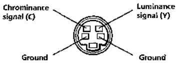
Signal assignment

VIDEO 3 IN connector (D-sub 15-pin, 3-row)
VIDEO OUT connector (D-sub 15-pin, 3-row)



Pin No.	Signal
1	Red video or R-Y
2	Green video or Y
3	Blue video or B-Y
4	Ground
5	Ground
6	Red ground
7	Green ground
8	Blue ground
9	Not used
10	Ground
11	Ground
12	Not used
13	H sync or composite sync
14	V sync
15	Not used

Y/C IN/OUT connector (4-pin mini DIN)



Preset signals

Indicator		Signal standards		
INPUT	OUTPUT	Name	Scan lines	Line rate/field rate
NTSC	NTSC	NTSC	525 lines total (interlaced)	15.73 kHz/59.94 Hz
PAL	PAL	PAL	625 lines total (interlaced)	15.63 kHz/50.00 Hz
OTHERS	—	HDTV (Japan)	1125 lines total (interlaced)	33.75 kHz/59.94 Hz
31.5k	—	VGA Text	400 lines active (non-interlaced)	31.47 kHz/70.11 Hz
31.5k	31.5k	VGA 640 × 480	480 lines active (non-interlaced)	31.47 kHz/59.94 Hz
OTHERS	—	Mac 13″ mode	480 lines active (non-interlaced)	35.00 kHz/66.67 Hz
37k	37k	VESA 800 × 600	600 lines active (non-interlaced)	37.88 kHz/60.32 Hz
OTHERS	—	Mac 16″ mode	624 lines active (non-interlaced)	49.73 kHz/74.55 Hz
48k	48k	VESA 1024 × 768	768 lines active (non-interlaced)	48.36 kHz/60.00 Hz
64k	64k	VESA 1280 × 1024	1024 lines active (non-interlaced)	63.95 kHz/59.94 Hz

- H. SYNC and V. SYNC of all the output signals are negative.

VESA is a registered trademark of Video Electronics Standards Association.
VGA and SVGA are registered trademarks of International Business Machines Corporation.
Mac (Macintosh) is a registered trademark of Apple Computer, Inc.

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT
(US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

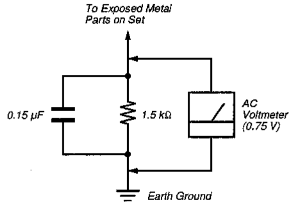


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

WARNING!!

NEVER TURN ON THE POWER IN A CONDITION IN WHICH THE DEGAUSS COIL HAS BEEN REMOVED.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

AVERTISSEMENT!!

NE JAMAIS METTRE SOUS TENSION QUAND LA BOBINE DE DEMAGNETISATION EST ENLEVÉE.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE ⚠ SONT CRITIQUES POUR LA SÉCURITÉ. NE LES REMPLACER QUE PAR UNE PIÈCE PORTANT LE NUMÉRO SPECIFIÉ. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIÉS DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNE-MENT EST SUSPECTÉ.

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The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

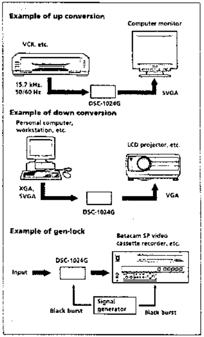
SECTION 1
GENERAL

Features

Thank you for purchasing the Sony Digital Scan Converter. Here are some of the features you'll enjoy with your converter:

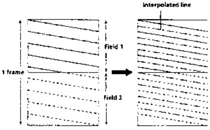
Combination of Transcoder with Format Converter

The unit is capable of converting the video signal format among composite video, Y/C, component and RGB, and either up or down converting the scanning frequencies in the range of fH: 15 kHz - 70 kHz and fV: 50 - 120 Hz into six resolution formats.
With this new combination of the transcoder and format converter functions, the unit accepts variable video input sources to display images with high-resolution monitors or projectors, or to record and play back with ordinary video equipment.



Line Doubler

The scanning frequencies of the input NTSC or PAL signals can be doubled for each field to 31.5 kHz horizontal frequency by interpolating information on line signals vertically. This enables smooth reproduction of fast moving pictures.



Generator lock (Gen-lock)

When you use this unit with your video editing system, the output NTSC or PAL signal can be locked to a reference signal (black burst video).

Aspect ratio display

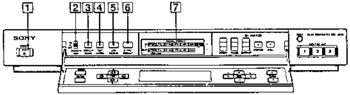
The aspect ratio of the converted picture is displayed on the screen as you zoom the picture or change the picture size.

Other features

- Three dimensional comb filter for NTSC Y/C separation
- Line correlation comb filter for PAL Y/C separation
- Up to × 4 zooming
- Accepts infrared or wired Sony remote commanders using SIRCS code
- On-screen display in five languages for user-friendly access
- Built-in test patterns for display alignment
- Three sets of video inputs with audio inputs: two composite video or Y/C inputs, and one RGB/component input
- Memory function for storage of up to five operation settings
- Automatic input signal detection with indication
- Self-adjusting for uniform output signal
- EIA rack mounting
- Selectable setup level (black reference level) for the output NTSC signal

Location and function of parts and controls

Front panel



1 ON/OFF (power) switch and indicator
Press to turn the unit on and off.
The indicator on the switch lights when the unit is turned on.

2 COMMAND MODE selector
When using the remote commander supplied with the Sony monitor or TV, set it to TV.
When using the remote commander supplied with the Sony projector, set it to PJ.
When not using the remote commander, set to OFF

3 DISPLAY ON/OFF button and indicator
Press this button to turn on the indicator (DISPLAY ON) to display the current operating mode on the screen.
Press it again to turn off the indicator to eliminate the display (DISPLAY OFF).

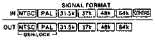
Note
The main menu appears by pressing the MENU button, even if the DISPLAY OFF mode is selected.

4 TEST PATTERN button and indicator
Press this button to turn on the indicator to display the test pattern on the screen.
To turn off the test pattern, press the TEST PATTERN button repeatedly until no test pattern is displayed, or press the ON/OFF, INPUT SELECT or OUTPUT FORMAT button.

5 LINE DOUBLER button and indicator
When the input signal format is NTSC or PAL, press this button to turn on the indicator and activate the line doubler function. Press it again to turn off the indicator and cancel the line doubler function.

6 OUTPUT FORMAT button
Press this button to select the desired output signal format. The selected output signal indicator lights.

7 SIGNAL FORMAT indicators



IN indicators (upper)
Shows the input signal format that the unit automatically detected.
31.5k, 37k, 48k and 64k indicate the horizontal scanning frequencies. If the horizontal scanning frequency of the input signal detected is one of these values ±1 kHz, the corresponding indicator lights. If another value is detected, the OTHERS indicator lights

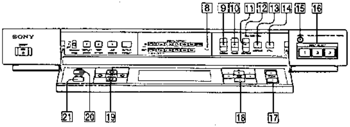
OUT indicators (lower)
Shows the output signal format selected by the OUTPUT FORMAT button. The output signal format shown by each indicator is as follows:

Indicator	Format name
NTSC	NTSC
PAL	PAL
31.5k	VGA 640 × 480
37k	VESA 800 × 600
48k	VESA 1024 × 768
64k	VESA 1280 × 1024

For specifications of each format, see "Preset signals" on page 47.

GEN-LOCK indicator
When the output signal format is PAL or NTSC and GEN LOCK is set to ON on the menu screen, the GEN-LOCK indicator lights or flashes.

Location and function of parts and controls (continued)



6 Remote sensor
Receives the beam from the remote commander

9 CHROMA +/– button
Press to adjust the picture chroma level.

10 PHASE +/– button
Press to adjust the picture phase level.

11 CONTRAST +/– button
Press to adjust the picture contrast

12 OVERFLOW indicator
This indicator lights when input signal level is excessive

13 APERTURE button and indicator
Press this button to turn on the indicator to make the picture sharper. Press it again to turn off the indicator for a softer picture.

14 STILL button and indicator
Press this button to turn on the indicator to get a still picture. Press it again to turn off the indicator to resume the normal screen.

15 OPEN button
Press to open the front cover

16 INPUT SELECT buttons
Press to select the input signal.
1: to select the input source connected to the VIDEO 1 (Y/C or COMP) connector and the AUDIO 1 IN connector.
2: to select the input source connected to the VIDEO 2 (Y/C or COMP) connector and the AUDIO 2 IN connector.
3: to select the input source connected to the VIDEO 3 (RGB or YBR*) connector and the AUDIO 3 IN connector.

* YBR is an abbreviation of Y/B-Y/R-Y component signal.

17 ZOOM +/– buttons
Press the + button to zoom up, and the – button to zoom down.

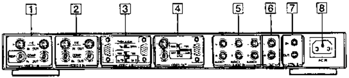
18 SIZE V/H +/– buttons
Press to adjust the size of the picture.
V +: to expand the vertical size
V–: to reduce the vertical size
H+: to expand the horizontal size
H–: to reduce the horizontal size

19 CENT⇧/⇩/⇦/⇨ buttons/cursor buttons
Press to shift the picture in the direction of the arrow.
The ⇧ and ⇩ buttons are also used for moving the cursor on the menu screen.

20 MENU button
Press to make the menu appear, or quit the menu.

21 ENTER button
Press to select the desired item in a menu.

Rear panel



1 VIDEO 1 IN connector section
2 VIDEO 2 IN connector section
Two sets of video inputs and loop-through outputs

Y/C IN (4-pin):
Connect to the Y/C output of video equipment.
This connector has a priority over the COMP IN connector, if both connectors are used.
COMP IN/REF (BNC type):
Connect to the composite video output of video equipment.
Also, input the reference signal for the gen-lock (black burst signal) to the VIDEO 1 IN REF connector.
Y/C OUT (4-pin):
Loop-through output of the Y/C IN connector
COMP OUT (BNC type):
Loop-through output of the COMP IN connector

3 VIDEO 3 IN connector section
A set of RGB or component (Y/B-Y/R-Y) signal inputs

RGB/component input (D-sub 15-pin, 3-row):
Connect one of the D-sub connectors to the RGB outputs of video equipment or the component (Y/B-Y/R-Y) outputs of a Betacam SP video cassette recorder. The other D-sub connector is a loop-through output.
Termination switch:
When nothing is connected to the loop-through output connector, set to 75 Ω. When the loop-through output connector is used, set to OPEN.
RGB/YBR* selector:
Select the position to match the format of the signal input to the D-sub connector.
SYNC selector:
Normally set to AUTO. Set to ON G to use the sync signal on green channel when both external sync signal and sync on green signal are input.

* YBR is an abbreviation of Y/B-Y/R-Y component signal

4 VIDEO OUT connector section
Three sets of video outputs. The converted signal is output from this section.

Y/C output (4-pin):
Connect to the Y/C input of video equipment.
Only the NTSC or PAL signal is output from this connector.
Composite video output (BNC type):
Connect to the composite video input of video equipment.
Only the NTSC or PAL signal is output from this connector.
RGB/component output (D-sub 15-pin, 3-row):
Connect to the RGB or component (Y/B-Y/R-Y) inputs of video equipment.
RGB/YBR output selector:
Set this selector depending on the format of the signal output from the D-sub connector. YBR is effective when the NTSC or PAL signal is output.
SYNC output selector:
Select the sync signal for the RGB output.
Set to SEP to use separate horizontal/vertical sync signal.
Set to COMP to use the composite sync signal.

5 AUDIO IN L/R jacks (RCA pin)
Three sets of audio inputs.
Connect to the audio output jacks of equipment. If the input source is monaural, connect it to the L jack only.
You can select the audio input with the INPUT SELECT buttons on the front panel.

6 AUDIO OUT L/R jacks (RCA pin)
A set of audio outputs.
Connect to the audio input jacks of equipment.

7 CTRL S IN/OUT jacks (minijack)
Connect to the CONTROL S jacks of other Sony equipment.
It is then possible to control the whole system with a single remote commander.
When a plug is connected to the CTRL S IN jack, the remote sensor on the front panel becomes inactive.

8 AC IN connector
Connect the supplied power cord.

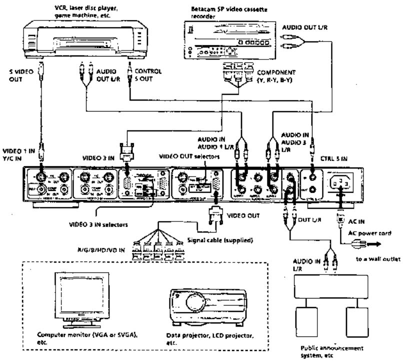
Hookups

Before you get started

- First make sure that the power to each piece of equipment is turned off.
- Use connecting cables suitable for the equipment to be connected.
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and other noise.
- To disconnect the cable, pull out by grasping the plug. Never pull the cable itself.
- Read the instruction manual of the equipment to be connected.

Hookup for getting the up-converted signal

The following diagram shows a connection example to convert a low-rate input signal into a high-rate output signal.


VCR, laser disc player, game machine, etc.
Betacam SP video cassette recorder
AUDIO OUT L/R
S VIDEO OUT
AUDIO OUT L/R
CONTROL S OUT
COMPONENT (Y, R-Y, B-Y)
AUDIO IN AUDIO 1 L/R
AUDIO IN AUDIO 3 L/R
VIDEO 1 IN Y/C IN
VIDEO 3 IN
VIDEO OUT selectors
CTRL S IN
VIDEO 3 IN selectors
VIDEO OUT
OUT L/R
AC IN
AC power cord
to a wall outlet
Signal cable (supplied)
R/G/B/HD/VD IN
AUDIO IN L/R
Computer monitor (VGA or SVGA), etc.
Data projector, LCD projector, etc.
Public announcement system, etc

Setting the VIDEO OUT selectors

- Set the RGB/YBR selector to RGB (when a computer monitor, data projector or LCD projector is connected).
- Set the SYNC selector to SEP (HD or VD separate sync) or COMP (composite sync) depending on the connected equipment.

When the Betacam SP video cassette recorder is connected to VIDEO 3 IN

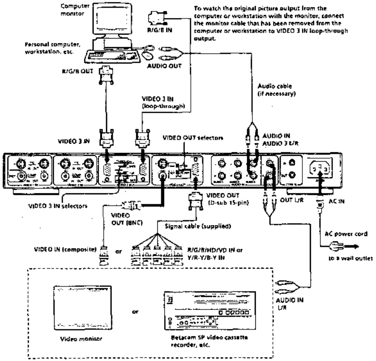
Set the VIDEO 3 IN selectors as follows:

- 75 Ω /OPEN selector → 75 Ω
- RGB/YBR selector → YBR
- SYNC selector → AUTO

Connect only the three plugs of the signal cable to the Betacam SP video cassette recorder: green plug to Y connector, red to R-Y, and blue to B-Y. Leave the other plugs, if provided, disconnected.

Hookup for getting the down-converted signal

The following diagram shows a connection example to convert a high-rate input signal into a low-rate output signal.


Computer monitor
R/G/B IN
Personal computer, workstation, etc.
R/G/B OUT
AUDIO OUT
To watch the original picture output from the computer or workstation with the monitor, connect the monitor cable that has been removed from the computer or workstation to VIDEO 3 IN loop-through output.
Audio cable (if necessary)
VIDEO 3 IN (loop-through)
VIDEO 3 IN
VIDEO OUT selectors
AUDIO IN AUDIO 3 L/R
VIDEO 3 IN selectors
VIDEO OUT (BNC)
VIDEO OUT (D-sub 15-pin)
OUT L/R
AC IN
Signal cable (supplied)
AC power cord
to a wall outlet
VIDEO IN (composite)
or
R/G/B/HD/VD IN or Y/R-Y/B-Y IN
AUDIO IN L/R
or
Video monitor
Betacam SP video cassette recorder, etc.

Setting the VIDEO OUT selectors

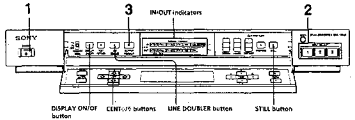
- Set the RGB/YBR selector to RGB when a video monitor or video projector is connected.
  Set it to YBR when a Betacam SP video cassette recorder is connected.
- Set the SYNC selector to SEP (HD or VD separate sync) or COMP (composite sync) depending on the connected equipment.

When the computer monitor is connected to the VIDEO 3 IN loop-through output

Set the VIDEO 3 IN selectors as follows:

- 75 Ω /OPEN selector → OPEN
- RGB/YBR selector → RGB
- SYNC selector → AUTO or ON G depending on the connecting equipment
  For Macintosh and Silicon Graphics Inc. computers, set to ON G.

Watching the converted picture



Before you start

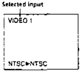
- Turn on the connected equipment and play a video source.
- To display the information on the current operation on the screen, make sure the indicator of the DISPLAY ON/OFF button is lit. If not, press the DISPLAY ON/OFF button.
- To set the on-screen language to yours, see page 44.

Converting the picture

1 **Press the ON/OFF switch.**
The indicator of the ON/OFF switch and all the three INPUT SELECT buttons light.

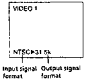
2 **Select the input source to be converted by pressing the INPUT SELECT button.**
The pressed button lights brighter than the others, and the input signal indicator lights to show the input signal format (see page 47)

INPUT SELECT
1
2
3



3 **Select the desired output signal format by pressing the OUTPUT FORMAT button repeatedly.**
The selected output signal indicator lights. The output signal is switched a few seconds after you release the button.
For the specification of each output format, see page 47

OUTPUT FORMAT



Using the line doubler

The line doubler function of this unit converts the input NTSC or PAL signal into a digitally interpolated, high scan-rate output signal. The output signal format becomes a non-interlaced signal whose horizontal frequency is 31.5 kHz and vertical frequency is synchronized to the input signal
The line doubler up-converts the signal, field by field by interpolating information on two line signals vertically. Therefore, a fast moving picture is reproduced as a natural high-resolution picture.

- The converted signal is output from the RGB/component output connector in the RGB format.
- The line doubler can be activated for the three inputs separately.

Activating the line doubler

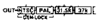
1 **Press the OUTPUT FORMAT button to select 31.5k.**

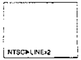
2 **Connect a NTSC or PAL signal source and select the input with the INPUT SELECT buttons.**

3 **Press the LINE DOUBLER button.**
The indicator of the button lights, and the NTSC and 31.5k or the PAL and 31.5k OUT indicators light

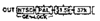
LINE DOUBLER

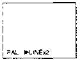
When the input source is NTSC



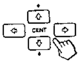


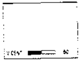
When the input source is PAL





4 **Adjust the position of the picture by pressing the CENT ⇦/⇧/⇩/⇨ buttons.**





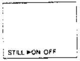
To deactivate the line doubler
Press the LINE DOUBLER button again to turn off the indicator of the button. The 31.5k output format is restored.

Notes

- If you press the LINE DOUBLER button when the input source is not NTSC or PAL or the output format is not 31.5k, "NOT APPLICABLE" appears on the screen and the LINE DOUBLER button does not function.
- When the line doubler is activated, the ZOOM, SIZE, APERTURE and TEST PATTERN buttons do not function.
- When the line doubler is activated, the picture size is the same as the original one.
- When you use the line doubler function, we recommend the input source video equipment equipped with the TBC (time base corrector). If you activate the line doubler for the signal without the TBC and display the converted signal with a multi-scan monitor, the picture may disappear due to disturbance of the sync signal.

Watching a still picture

When a moving picture is displayed, press the STILL button to set STILL on the screen to ON. The output signal is displayed as a still picture. The indicator of the STILL button lights.



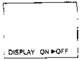
To resume the normal screen, press the STILL button again.

Note
In the still picture mode, only the ON/OFF switch, and the INPUT SELECT, OUTPUT FORMAT, LINE DOUBLER, TEST PATTERN, MENU, ENTER and CENT ⇧/⇩ buttons will function.
If you press any other button, "NOT APPLICABLE" appears on the screen

Getting rid of on-screen information

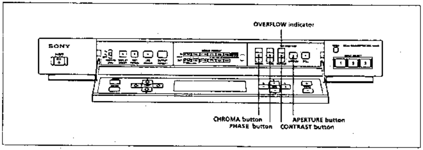
When the indicator of the DISPLAY ON/OFF button is lit, the information on the operation you performed is displayed on the screen for a few seconds.
To get rid of the on-screen display, press the DISPLAY ON/OFF button to set DISPLAY on the screen to OFF.

DISPLAY ON/OFF



Note
Even if DISPLAY is set to OFF, only the main menu appears when you press the MENU button.

Adjusting the picture

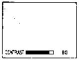


While watching the picture, you can adjust contrast, phase, chroma and aperture to suit your taste. The adjustments can be carried out for the three inputs separately. The adjusted levels are stored in memory.

Adjusting the contrast, phase, and chroma

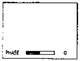
Press the desired adjustment button: CONTRAST, PHASE, or CHROMA.
The adjustment levels are displayed on the screen.

CONTRAST



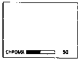
+: to increase picture contrast
–: to decrease picture contrast

PHASE



+: to make overall picture greenish
–: to make overall picture purplish

CHROMA



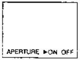
+: to increase color intensity
–: to decrease color intensity

Notes
- CHROMA and PHASE controls do not function for the RGB input signal.
- PHASE control does not function for the component (Y/B-Y/R-Y) input signal.
- PHASE control does not function with PAL color source.

If you press these buttons, "NOT APPLICABLE" appears on the screen.

Adjusting the aperture

To make the picture sharper, press the APERTURE button to set APERTURE on the screen to ON. The indicator of the APERTURE button lights.
To make the picture softer, press the APERTURE button again to set APERTURE to OFF.
The factory setting is APERTURE OFF for the NTSC or PAL video input, or APERTURE ON for the other inputs.



Note
When the output signal format is an interlaced signal such as NTSC and PAL, setting APERTURE OFF reduces line flickers although the image contour becomes slightly blurred

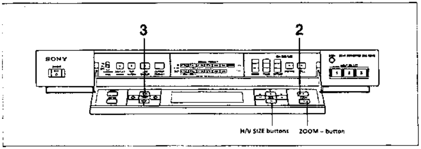
If the input signal level is excessive

The OVERFLOW indicator lights. In this case, check that the 75Ω / OPEN selector and the RGB / YBR selector in the VIDEO 3 connector section are set correctly. If they are correct, press the CONTRAST – button.

Restoring the factory preset contrast, phase and chroma levels

Use COLOR RESET on the MENU 1 screen. (See page 39.)

Zooming and resizing the picture

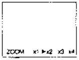


You can zoom up the picture making it 2, 3 or 4 times larger than the original size
You can also shift the position of the picture so that it fits in the screen, or adjust the vertical and horizontal size of the picture separately.
The adjustments can be carried out for the three inputs separately.

Zooming up the picture

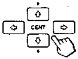
1 **Display the picture on the screen.**

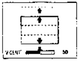
2 **Press the ZOOM + button.**

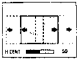


Each time you press the ZOOM + button, the picture is magnified by 2, 3 and 4 times respectively
To zoom down, press the ZOOM – button.

3 **Adjust the position of the close-up picture by pressing the CENT ⇧/⇩/⇨/⇦ buttons.**
⇧/⇩: to shift the picture upward / downward (V CENT)
⇨/⇦: to shift the picture to the right/left (H CENT)



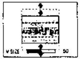


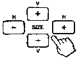


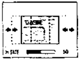
The position of the picture is indicated on the screen by the adjustment bar and value 0 to 100. The factory preset value is 50.

Resizing the picture

Press the H/V SIZE +/– buttons to resize the picture.
V SIZE +: to expand vertical size
V SIZE –: to reduce vertical size
H SIZE +: to expand horizontal size
H SIZE –: to reduce horizontal size



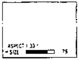




The size of the picture is indicated on the screen by the adjustment bar and value 0 to 100. The factory preset value is 50 (except the HDTV or 64 k input).

Aspect ratio display

As the picture size changes by the H/V SIZE button, the unit calculates the aspect ratio of the converted picture and displays it in decimal values on the screen together with the adjustment bar and value.
Example: 4 : 3 is displayed 1.33 : 1
16 : 9 is displayed 1.78 : 1

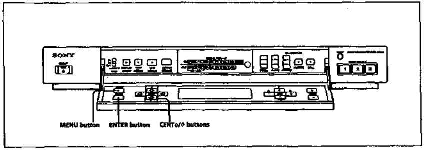


Note
The aspect ratio is displayed only when the preset signal is input. For the preset signals, see page 47.

Restoring the original picture size and position

Use GEOM RESET on the MENU 1 screen. (See page 39.)

Using the memory

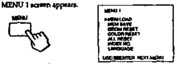

SONY
MENU button
ENTER button
CENTo/o buttons

You can store the parameters of the adjusted picture into memory. Five sets of input/output selection, zooming size, H/V size and H/V position can be stored into memory and switched quickly.
Up to 5 memories are available.

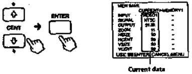
Storing the current condition

1 **Adjust the picture as necessary.**

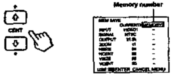
2 **Press the MENU button.**
The MENU 1 screen appears.


MENU
MENU 1
▶MEM LOAD
MEM SAVE
GEOM RESET
COLOR RESET
ALL RESET
INDEX NO.
LANGUAGE
USE:ENTER NEXT:MENU

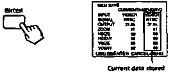
3 **Press the CENT o/o button to move the cursor (▶) to MEM SAVE, and press the ENTER button.**
The MEM SAVE screen appears.
The current data is displayed on the left column under "CURRENT" and the data in the memory on the right column. If no data is stored in the memory, that item is shown by "– ."


CENT
ENTER
MEM SAVE
CURRENT▶MEMORY1
INPUT
SIGNAL
OUTPUT
ZOOM
HSIZE
HCENT
VSIZE
VCENT
NTSC
USE:ENTER CANCEL:MENU
Current data

4 **Press the CENTo/o button repeatedly so that the desired memory number (1 to 5) appears.**


CENT
Memory number
MEM SAVE
CURRENT▶MEMORY2
INPUT
SIGNAL
OUTPUT
ZOOM
HSIZE
HCENT
VSIZE
VCENT
NTSC
USE:ENTER CANCEL:MENU

5 **Press the ENTER button.**
The current data is stored under the selected memory number on the right column.
If any data has been stored in the selected memory number, it is now displayed on the left column under "CURRENT."

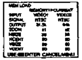

ENTER
MEM SAVE
CURRENT▶MEMORY2
INPUT
SIGNAL
OUTPUT
ZOOM
HSIZE
HCENT
VSIZE
VCENT
VIDEO1
NTSC
USE:ENTER CANCEL:MENU
Current data stored

6 **To quit the menu, press the MENU button three times.**

Calling up the stored data

1 **Press the MENU button.**
The MENU 1 screen appears.

2 **Press the CENT o/o button to move the cursor (▶) to MEM LOAD, and press the ENTER button.**
The MEM LOAD menu appears.


MEM LOAD
MEMORY1▶CURRENT
INPUT
SIGNAL
OUTPUT
ZOOM
HSIZE
HCENT
VSIZE
VCENT
VIDEO1
NTSC
USE:ENTER CANCEL:MENU

3 **Press the CENT o/o button repeatedly to select the desired memory number (1 to 5), and press the ENTER button.**
The converter is adjusted to the selected memory data.

4 **To cancel the operation, press the MENU button twice.**

To call up the stored data quickly
Use the remote commander. See "Direct memory loading" on page 40.

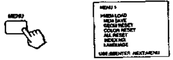
Resetting the data to the factory preset levels

There are three options for resetting the adjustment data to the factory preset levels.

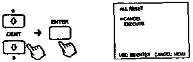
GEOM RESET:	Resets ZOOM, H/V SIZE and H/V CENT currently in use.
COLOR RESET:	Resets CONTRAST, PHASE and CHROMA currently in use.
ALL RESET:	Resets all user adjustment items to the factory preset data and clears the memory contents.

The operation procedures are the same for the three options.

1 **Press the MENU button.**
The MENU 1 screen appears.


MENU
MENU 1
▶MEM LOAD
MEM SAVE
GEOM RESET
COLOR RESET
ALL RESET
INDEX NO.
LANGUAGE
USE:ENTER NEXT:MENU

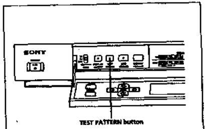
2 **Press the CENT o/o button to move the cursor (▶) to GEOM RESET, COLOR RESET or ALL RESET, and press the ENTER button.**


CENT
ENTER
ALL RESET
▶CANCEL
EXECUTE
USE: ENTER CANCEL: MENU

3 **Press the CENT o/o button to move the cursor to EXECUTE, and press the ENTER button.**
The adjustment data are reset to the factory preset levels.

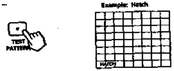
To cancel resetting
Press the MENU button, or select CANCEL in step 3 above and press the ENTER button.

Using the test pattern


SONY
TEST PATTERN button

You can use the built-in test patterns to adjust the monitor or projector screen.

Press the TEST PATTERN button.
Each time you press TEST PATTERN, the following test patterns appear in sequence.
Hatch → Box → Color bar → Gray scale → OFF (input signal) → Hatch → ...

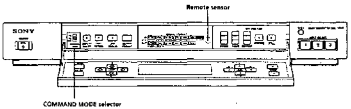

Example: Hatch
TEST PATTERN
HATCH

The selected test pattern name is displayed on the screen for about 3 seconds.

To restore the normal screen
Press the TEST PATTERN button repeatedly until no test pattern is displayed. Pressing the ON/OFF switch, INPUT SELECT buttons or OUTPUT FORMAT button also restores the normal screen.

Note
When the test pattern is displayed, only the ON/OFF switch, and the INPUT SELECT, OUTPUT FORMAT, MENU and CENT o/o buttons will function.

Using the remote commander



This unit accepts wireless or wired remote commanders for Sony monitors, TVs and projectors.

Setting the type of the remote commander

Set the COMMAND MODE selector according to the type of the remote commander.

TV
PJ
OFF
COMMAND MODE

TV: Sony monitors' or TVs' commander
PJ: Sony projectors' commander
OFF: When not using the remote commandder, set to this position to avoid malfunction.

Available remote commander operations

The following operations can be controlled by the remote commander.

- Power on/off
- Input selection
- Picture adjustments: contrast, phase and chroma
- On-screen display on/off (only for video monitors and TVs)
- Menu operations (See the right column.)
- Direct memory loading (See the right column.)

The available operations and the buttons to be used for each operation are limited depending on each remote commander. See the table below.

Direct memory loading

The remote commander can quickly call up the adjustment data stored in the memory.

1. **Press buttons 7, 7, 7 and ENTER on the remote commander in sequence at intervals of one second.**
   The "MEMORY LOAD READY" appears on the screen.
2. **Select the memory number (1 to 5) you want to call up using the number button.**
   The converter is adjusted to the selected memory data.

To cancel the operation

Press buttons 0, 0, 0 and ENTER on the remote commander in sequence at intervals of one second. The "MEMORY LOAD EXIT" appears on the screen.
The direct memory load operation is also cancelled by turning off the unit.

Note

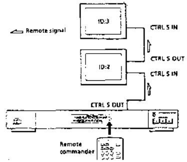
Be sure to press buttons 7, 7, 7 and ENTER, or 0, 0, 0 and ENTER at intervals of about one second.
If more than 3 seconds elapse between two presses, the operation will be cancelled. In this case, start again.

Menu operation using the remote commander

The menu screens for the remote commander are different from those for the main unit.
When you press the menu button (MENU, PAGE or ←) on the remote commander once or twice, the GEOM MENU or COLOR MENU appears respectively.
Select the item with the ↑/↓ button and press the enter button (ENTER, → or M SEL) on the remote commander. Then adjust the selected item using the ↑/↓ button.

Remote commander model		RM-854	RM-1271	RM-PJ1292	RM-PJ350	RM-PJC520
COMMAND MODE setting		TV	PJ	PJ	PJ	PJ
Input selection	INPUT SELECT 1	LINE1	VIDEO	VIDEO	VIDEO1	1
	INPUT SELECT 2	LINE2	A	A	VIDEO2	2
	INPUT SELECT 3	LINE3	B	B	RGB	3
Menu operation	MENU	MENU	PAGE or ←	PAGE or ←	PAGE or ←	PAGE
	ENTER	ENTER	→	→	→	M SEL
	CENT ⇧	↑	↑	↑	↑	↑
	CENT ⇩	↓	↓	↓	↓	↓
Picture adjustment	CONTRAST	CONTRAST	CONTR	CONTR	CONTR	CONTR
	CHROMA	CHROMA	COLOR	COLOR	COLOR	-
	PHASE	PHASE	HUE	HUE	HUE	-

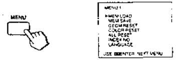
Operating a specific unit with the remote commander



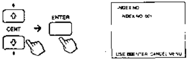
When multiple pieces of Sony equipment are connected via the CTRL S jack, you can operate a specific piece of equipment by assigning the index number preset for each piece of equipment on the converter, and then on the remote commander.
For presetting the index number on each piece of equipment, refer to the Instruction Manual of the equipment.
The following explanation is an example of use of the RM-854 remote commander.

Assigning the index number on the converter

1. **Press the MENU button once.**
   The MENU 1 screen appears.



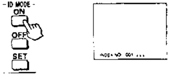
2. **Press the CENT ⇧/⇩ button to move the cursor (▶) to INDEX NO. and press the ENTER button.**
   The INDEX NO. screen appears.



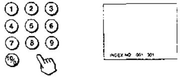
3. **Press the CENT ⇧/⇩ button repeatedly to select the index number (1 to 255) of the equipment you want to control, and press the ENTER button.**
4. **To quit the menu, press the MENU button three times.**

Operating the equipment with the RM-854 remote commander

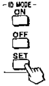
1. **Press the ID MODE ON button on the remote commander.**
   The index numbers appear on all the pieces of equipment including the converter.



2. **Input the index number of the equipment you want to operate using 0–9 buttons of the remote commander.**
   The input number appears right next to each equipment own index number.

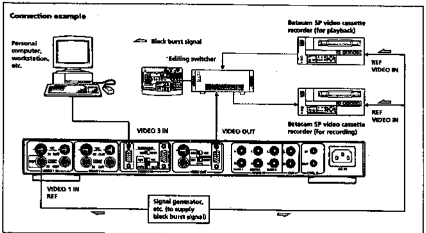


3. **Press the ID MODE SET button.**
   The character on the selected equipment changes to cyan while others change to red.



Now you can operate only a specified equipment (All operations available in ID mode except POWER ON/OFF).

Using the generator lock (gen-lock)

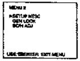

Connection example
Personal computer, workstation, etc.
Black burst signal
Editing switcher
Betacam SP video cassette recorder (for playback)
REF VIDEO IN
REF VIDEO IN
Betacam SP video cassette recorder (for recording)
VIDEO 3 IN
VIDEO OUT
VIDEO 1 IN REF
Signal generator, etc. (to supply black burst signal)

The output NTSC or PAL signal can be synchronized using the black burst signal input from a signal generator, etc. as a reference signal (gen-lock).
This enables smooth editing without transition noise when multiple video sources are used.

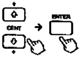
Activating the generator lock

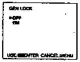
1 **Input the reference signal which corresponds with the output signal format (NTSC or PAL) from the editor or signal generator to the VIDEO 1 IN REF connector.**

2 **Press the MENU button twice.**
The MENU 2 screen appears.


MENU 2
►SETUP NTSC
GEN LOCK
SC/H ADJ
USE: ENTER EXIT:MENU

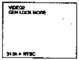
3 **Press the CENT ⇧/⇩ button to move the cursor (►) to GEN LOCK, and press the ENTER button.**
The GEN LOCK screen appears.




GEN LOCK
►OFF
ON
USE: ENTER CANCEL:MENU

4 **Press the CENT ⇧/⇩ button to move the cursor (►) to ON, and press the ENTER button.**
The gen-lock is activated for the signal output from this unit and the GEN-LOCK indicator on the front panel lights.

When the converter is turned on or the input mode is changed, "GEN LOCK MODE" appears on the screen.

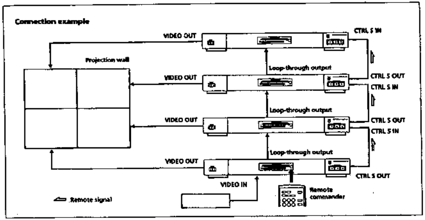

VIDEO2
GEN LOCK MODE
31.5k ► NTSC

To deactivate the generator lock
Repeat steps 1 to 3 above, then set GEN LOCK to OFF in step 4. The GEN-LOCK indicator on the front panel turns off.

Notes

- If you select GEN LOCK on the MENU 2 screen with no reference signal input, "NO REFERENCE" appears on the screen.
- "WRONG REFERENCE" will appear when the reference signal format does not correspond with the input signal format.
- The RGB/component output is recommended for editing. If you use the composite video output, a frame synchronizer may be needed to adjust the phase to the reference signal. For the SC/H (Subcarrier to Horizontal) adjustment, see page 44.

Constructing a projection wall


Connection example
Projection wall
VIDEO OUT
VIDEO OUT
VIDEO OUT
VIDEO OUT
Loop-through output
Loop-through output
Loop-through output
CTRL S IN
CTRL S OUT
CTRL S IN
CTRL S OUT
CTRL S IN
CTRL S OUT
VIDEO IN
Remote commander
Remote signal

When you construct a projection wall which displays a larger picture constructed from multiple projectors, use the converters as in the connection example above. Prepare one converter for each projector.
Adjust the picture of each projector so that the projection wall picture is displayed smoothly, and store the adjustment data on each converter under the same memory number. This enables you to quickly switch between a total of five projection wall pictures.

Storing the adjustment data of the picture

1 **Adjust the projectors.**
Use the test patterns (HATCH, COLOR BAR and GRAY SCALE) contained in the converter. For the test patterns, see page 39.

2 **Adjust pieces of the picture with the converter.**
Set the zooming magnification according to the number of pieces of the picture. Then adjust each piece of the picture using the H/V SIZE buttons and CENT buttons so that they connect smoothly as a large picture.

Number of pieces of the picture	Zooming
4	×2
9	×3
16	×4

For zooming and resizing the picture, see page 37.

3 **Store the adjustment data in the memory of the converter.**
Store the data under the same memory number on each converter.
For details, see "Storing the current condition" on page 38.

4 **Repeat steps 1 to 3 for storing other picture patterns.**
The adjustment data for up to five picture patterns can be stored under memory numbers 1 to 5.

Displaying the picture on the projection wall
The names of the remote commander buttons differ depending on the commander model. Refer to the table on page 40.

1 **Press buttons 7, 7, 7 and ENTER on the remote commander in sequence at intervals of one second.**
"MEMORY LOAD READY" appears on each projector screen.

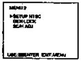
2 **Select the memory number under which the adjustment data of the desired picture pattern is stored by pressing the number button.**
All of the pieces of the picture are displayed properly so that they connect smoothly as a large picture.

3 **To switch to another picture pattern, press the number button corresponding to the memory number.**

Selecting the setup level

You can select the black level (setup level) for the output NTSC signal.
The black level is set to "0"(IRE) at the factory. If the output picture is too dark, change the setting to "7.5"(IRE).

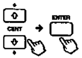
1 Press the MENU button twice.
The MENU 2 screen appears.

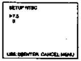

MENU 2

▶SETUP NTSC
GEN LOCK
SC/H ADJ

USE:ENTER EXIT:MENU

2 Press the CENT ◊/◊ button to move the cursor (▶) to SETUP NTSC, and press the ENTER button.
The SETUP NTSC menu appears.




SETUP NTSC

▶7.5
0

USE:ENTER CANCEL:MENU

3 Press the CENT ◊/◊ button to select "7.5" or "0," and press the ENTER button.

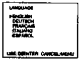
4 To quit the menu, press the MENU button twice.

Selecting the on-screen language

You can select the on-screen language among five languages.

1 Press the MENU button once.
The MENU 1 screen appears.

2 Press the CENT ◊/◊ button to move the cursor (▶) to LANGUAGE and press the ENTER button.
The LANGUAGE menu appears.


LANGUAGE

▶ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
ESPAÑOL

USE:ENTER CANCEL:MENU

3 Press the CENT ◊/◊ button repeatedly to move the cursor (▶) to the desired language, and press the ENTER button.

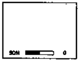
4 To quit the menu, press the MENU button three times.

Adjusting the SC/H
(Subcarrier to Horizontal)

When you edit or record a composite output signal with a VCR, you need to adjust the subcarrier-to-horizontal phase (SC/H).
Prepare special measurement equipment for the adjustment.

1 Press the MENU button twice
The MENU 2 screen appears.

2 Press the CENT ◊/◊ button to move the cursor (▶) to SC/H ADJ and press the ENTER button.
The adjustment value is displayed on the screen.


SC/H 0

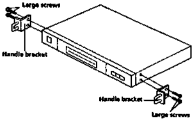
3 Press the CENT ◊/◊ button to adjust the SC/H.

4 To quit the menu, press the MENU button twice.

Rack mounting

You can mount the unit on a 19-inch EIA standard rack using the optional MB-510 mounting bracket kit.

1 Attach the handle brackets with the four large screws included in the kit.



2 Remove the four legs from the bottom of the unit.

3 Mount the unit into a 19-inch standard rack.

Caution
Do not hold the handle brackets to carry the unit. If you do, the unit may separate from the handle brackets.

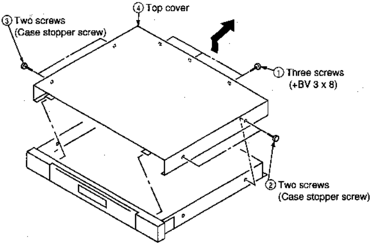
Troubleshooting

If you are having problems, check the countermeasures for each symptom listed below.
If the problem still cannot be solved, contact your nearest service facility.

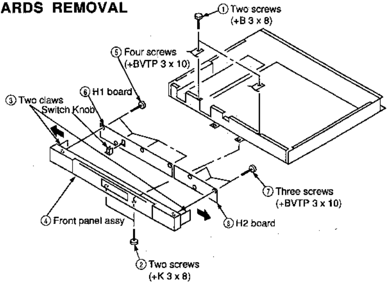
Symptom	Check and countermeasure
No picture	• Check if the indicator of the ON/OFF switch is lit. If not, make sure the power cord is connected and press the ON/OFF switch. • Check if the monitor/projector is turned on. • Check if the OUT indicator matching the monitor/projector is lit (see page 47). • Check if the monitor/projector is connected securely using the built-in test patterns. • Check if the correct INPUT SELECT button has been pressed. • Check if the input source equipment is turned on and input source is being played. • Check if one of the IN indicators is lit. If not, make sure the input source equipment is connected correctly. If equipment is connected to VIDEO 3 IN, set the SYNC AUTO/ON G selector to AUTO.
The sync signal streaks on the screen (does not stabilize).	• If the VIDEO OUT D-sub connector is used, check to see if the RGB/YBR selector and SYNC SEP/COMP selector of the VIDEO OUT section are correct.
Picture is greenish.	• If the input source equipment is a computer connected to VIDEO 3 IN, set the SYNC AUTO/ON G selector to ON G.
Picture is purplish.	• If the input source equipment is a computer connected to VIDEO 3 IN, set the RGB/YBR selector to RGB.
Picture is too large.	• Adjust the size of the picture using the SIZE buttons. • Press the ZOOM – button to set the zooming size to x1.
Remote commander does not function.	• Check the type of your remote commander and set the COMMAND MODE selector correctly (see page 40). • This unit functions with remote commanders for Sony TVs and projectors only. • Disconnect the plug from the CTRL S IN jack.
Remote commander malfunctions.	• Set the COMMAND MODE selector to OFF.
The POWER indicator flashes.	• The built-in thermal protector may have functioned. Check if the surrounding temperature is too high. • Press the POWER switch to turn the unit off. Then press it again and check the POWER indicator. If the POWER indicator still flashes, consult your dealer. • Press the POWER switch to turn the unit off. Then press it again and check the fan. If the fan does not work, consult your dealer.
"NOT APPLICABLE" is displayed on the screen.	• You have pressed a button that does not function in the current operating mode.
"NO REFERENCE" is displayed on the screen, and the GEN-LOCK indicator on the front panel flashes.	• The black burst signal is not input to the VIDEO 1 IN connector when GEN LOCK is set to ON on the MENU 2 screen.
"WRONG REFERENCE" is displayed on the screen, and the GEN-LOCK indicator on the front panel flashes..	• The format of the black burst signal input from the signal generator does not correspond with the output signal format (NTSC or PAL) of the converter.

SECTION 2
DISASSEMBLY

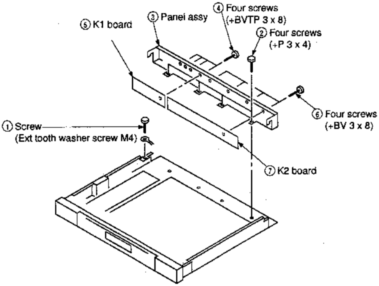
2-1. TOP COVER REMOVAL


④ Top cover
③ Two screws
(Case stopper screw)
① Three screws
(+BV 3 x 8)
② Two screws
(Case stopper screw)

2-2. H1 AND H2 BOARDS REMOVAL

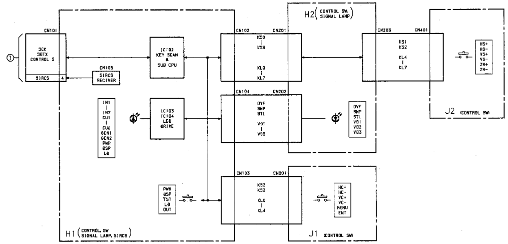

① Two screws
(+B 3 x 8)
⑤ Four screws
(+BVTP 3 x 10)
⑥ H1 board
③ Two claws
Switch Knob
⑦ Three screws
(+BVTP 3 x 10)
④ Front panel assy
⑧ H2 board
② Two screws
(+K 3 x 8)

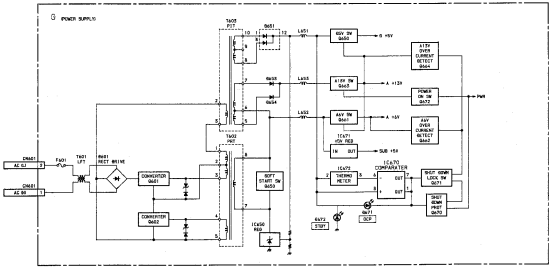
2-3. K1 AND K2 BOARDS REMOVAL

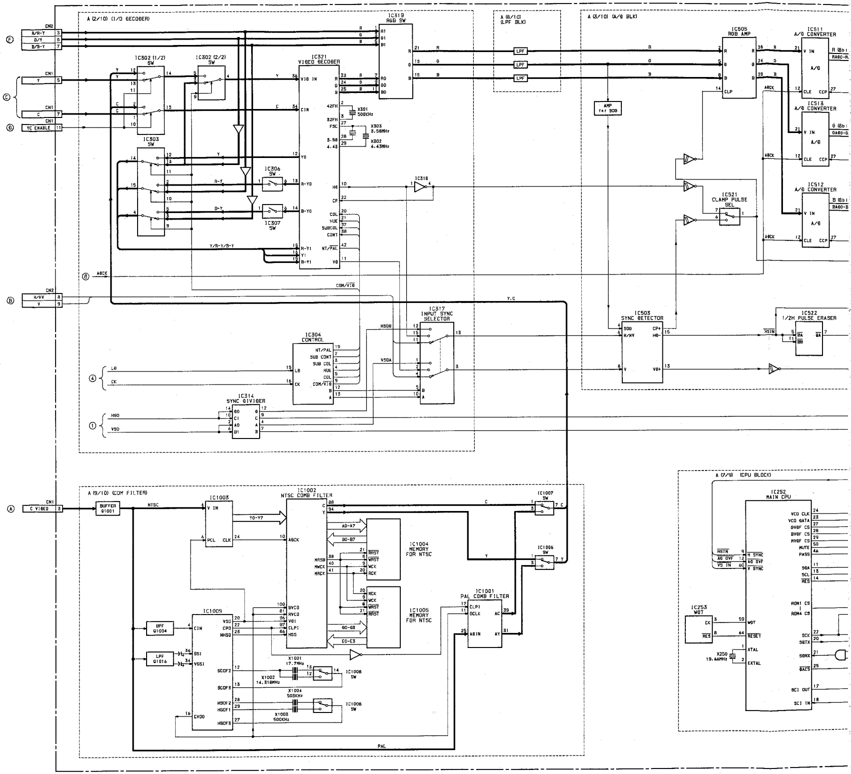

④ Four screws
(+BVTP 3 x 8)
③ Panel assy
⑤ K1 board
② Four screws
(+P 3 x 4)
⑥ Four screws
(+BV 3 x 8)
① Screw
(Ext tooth washer screw M4)
⑦ K2 board

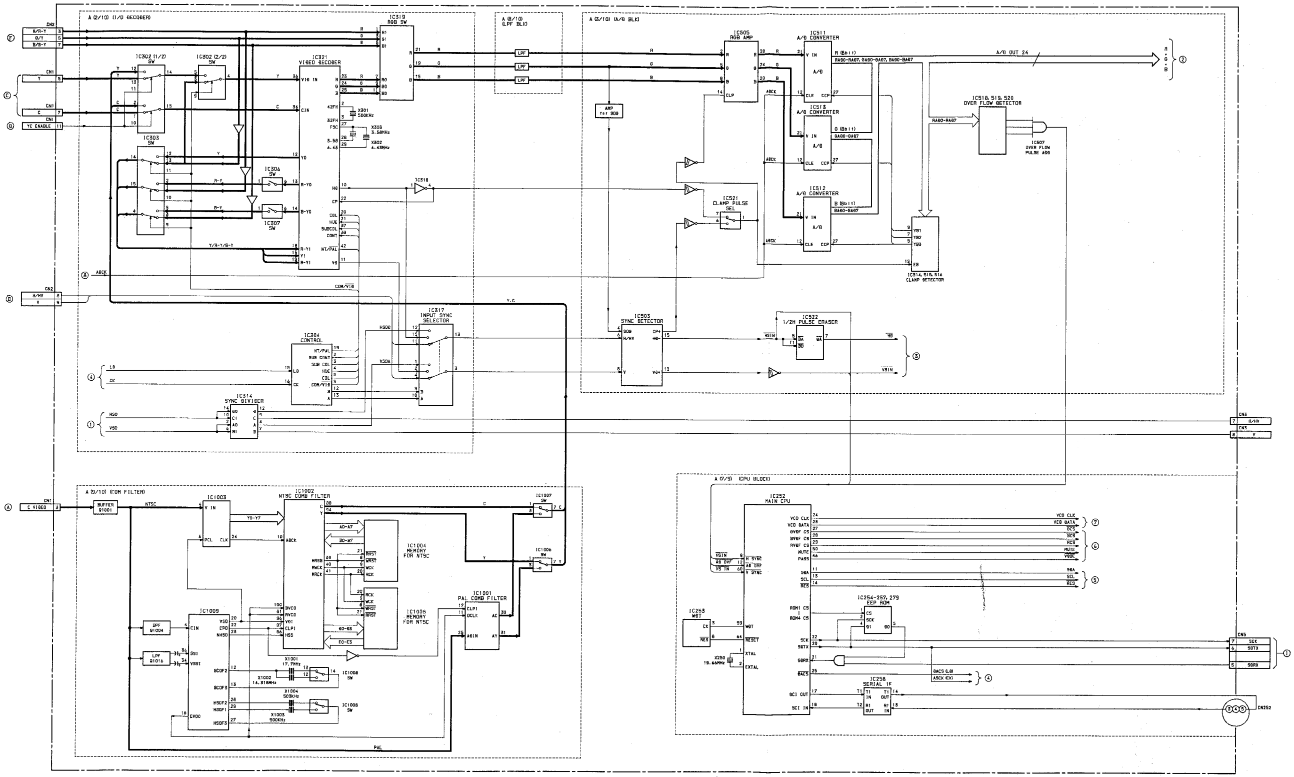
SECTION 3
DIAGRAMS

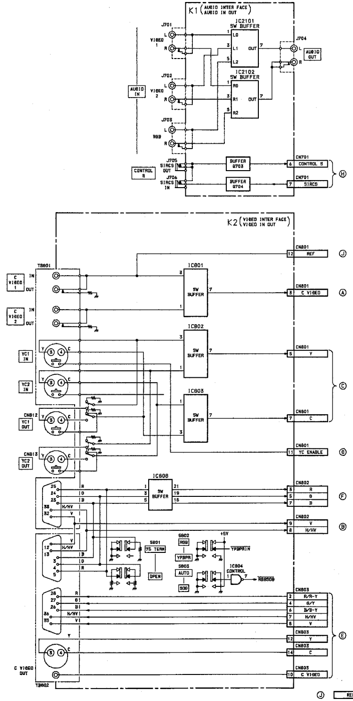
3-1. BLOCK DIAGRAMS

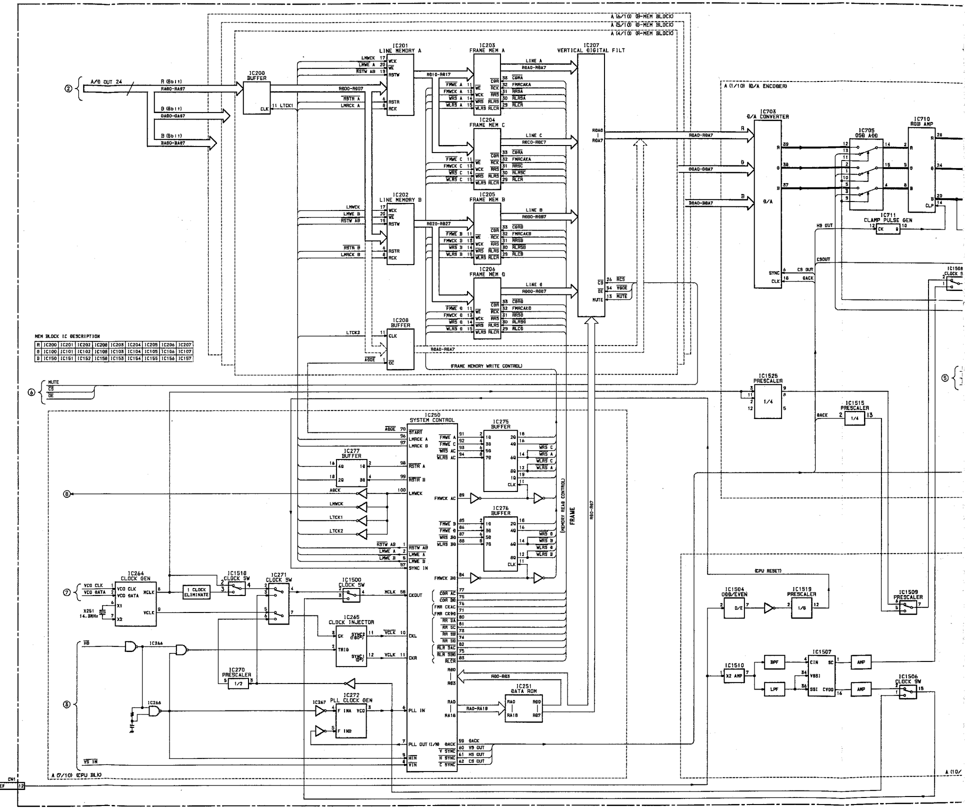

CN101
SCK
SBTX
CONTROL S
SIRCS
CN105
SIRCS RECIVER
IC102
KEY SCAN & SUB CPU
IC103
IC104
LED DRIVE
CN102
CN201
KS0
KS3
KL0
KL7
CN104
CN202
CN103
CN301
KS2
KS3
KL0
KL4
CN203
CN401
KS1
KS2
KL4
KL7
H2 (CONTROL SW, SIGNAL LAMP)
J2 (CONTROL SW)
H1 (CONTROL SW SIGNAL LAMP, SIRCS)
J1 (CONTROL SW)
HS+
HS-
VS+
VS-
ZH+
ZH-
HC+
HC-
VC+
VC-
MENU
ENT
PWR
DSP
TST
LD
OUT


G (POWER SUPPLY)
CN601
AC OJ
AC 0U
F601
T601 LFT
D601 RECT DRIVE
CONVERTER Q601
CONVERTER Q602
T603 PIT
T602 PRT
D651
D653
D654
L651
L653
L652
B5V SW Q650
A13V SW Q663
A6V SW Q661
B +5V
A +13V
A +6V
A13V OVER CURRENT DETECT Q664
POWER ON SW Q672
A6V OVER CURRENT DETECT Q662
PWR
IC671 +5V REG
SUB +5V
IC672 THERMO METER
IC670 COMPARATER
SHUT DOWN LOCK SW Q671
SHUT DOWN PROT Q670
SOFT START SW Q650
IC650 REG
Q672 STBY
Q671 OCP


A (2/10) (I/O DECODER)
IC319 RGB SW
IC302 (1/2) SW
IC302 (2/2) SW
IC321 VIDEO DECODER
IC303 SW
IC306 SW
IC307 SW
X301 500KHz
X303 3.58MHz
X302 4.43MHz
IC318
IC304 CONTROL
IC317 INPUT SYNC SELECTOR
IC314 SYNC DIVIDER
CN2
CN1
R/R-Y
G/Y
B/B-Y
Y
C
YC ENABLE
H/HV
V
C VIDEO
LD
CK
HSD
VSD
A (8/10) (LPF BLK)
LPF
A (3/10) (A/D BLK)
IC505 RGB AMP
IC511 A/D CONVERTER
IC513 A/D CONVERTER
IC512 A/D CONVERTER
AMP for SOG
IC521 CLAMP PULSE SEL
IC503 SYNC DETECTOR
IC522 1/2H PULSE ERASER
A (9/10) (COM FILTER)
BUFFER Q1001
IC1003
IC1002 NTSC COMB FILTER
IC1004 MEMORY FOR NTSC
IC1005 MEMORY FOR NTSC
IC1009
IC1001 PAL COMB FILTER
IC1007 SW
IC1006 SW
IC1008 SW
BPF Q1004
LPF Q1016
X1001 17.7MHz
X1002 14.31MHz
X1004 503KHz
X1003 500KHz
NTSC
PAL
A (7/8) (CPU BLOCK)
IC252 MAIN CPU
IC253 WDT
X250 19.6MHz

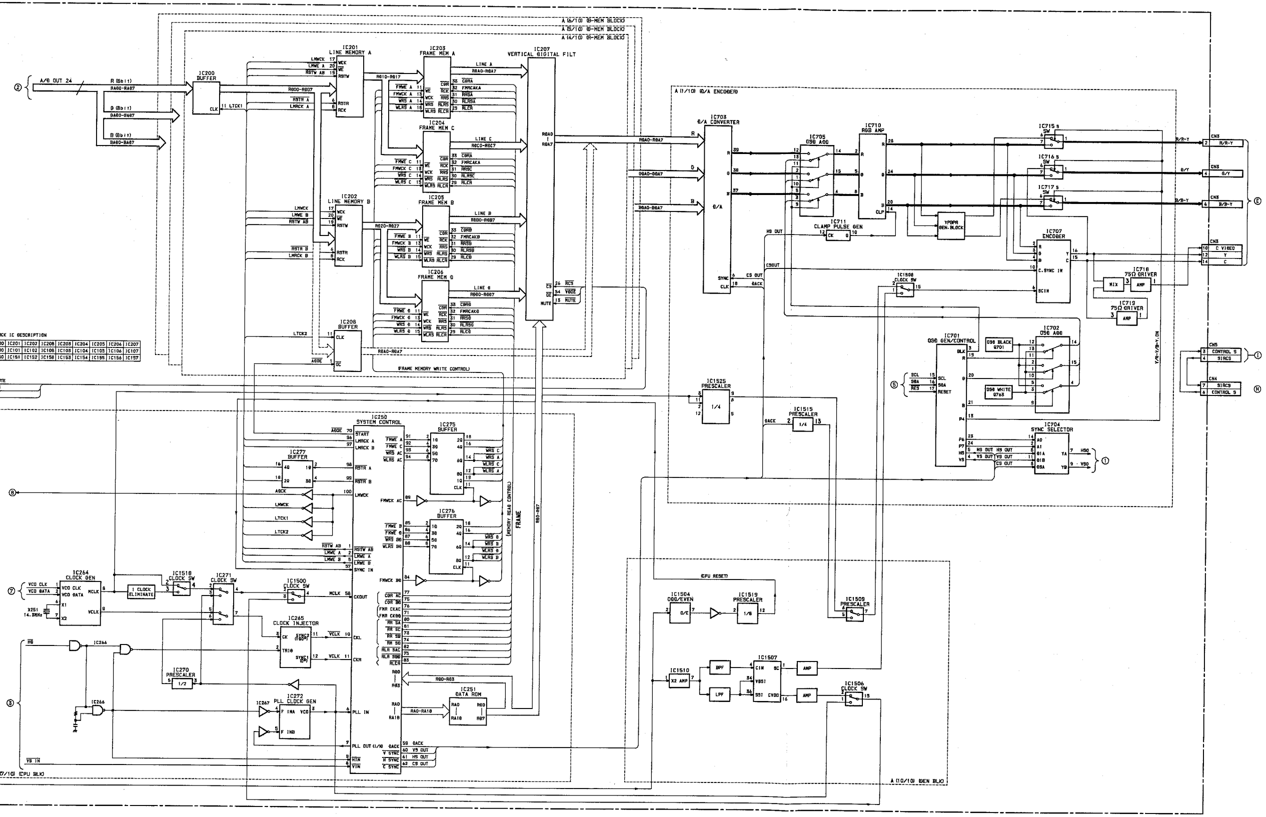

A (2/10) (I/O DECODER)
IC302 (1/2) SW
IC302 (2/2) SW
IC303 SW
IC306 SW
IC307 SW
IC319 RGB SW
IC321 VIDEO DECODER
X301 500KHz
X303 3.58MHz
X302 4.43MHz
IC318
IC304 CONTROL
IC314 SYNC DIVIDER
IC317 INPUT SYNC SELECTOR
A (8/10) (LPF BLK)
LPF
A (3/10) (A/D BLK)
IC505 RGB AMP
AMP for SOD
IC511 A/D CONVERTER
IC513 A/D CONVERTER
IC512 A/D CONVERTER
A/D OUT 24
IC518, 519, 520 OVER FLOW DETECTOR
IC507 OVER FLOW PULSE ADD
IC514, 515, 516 CLAMP DETECTOR
IC521 CLAMP PULSE SEL
IC503 SYNC DETECTOR
IC522 1/2H PULSE ERASER
CN1 R/R-Y B/Y B/B-Y Y C YC ENABLE
CN2 H/HV V
CN1 C VIDEO
A (9/10) (COM FILTER)
BUFFER Q1001
IC1003
IC1002 NTSC COMB FILTER
IC1004 MEMORY FOR NTSC
IC1005 MEMORY FOR NTSC
IC1001 PAL COMB FILTER
IC1007 SW
IC1006 SW
IC1009
BPF Q1004
LPF Q1016
X1001 17.7MHz
X1002 14.318MHz
X1004 503KHz
X1003 500KHz
IC1008 SW
A (7/9) (CPU BLOCK)
IC252 MAIN CPU
IC253 WDT
X250 19.66MHz
IC254-257, 279 EEP ROM
IC258 SERIAL I/F
CN3 H/HV V
CN5 SCK SDTX SDRX
CN252
VCO CLK VCO DATA
SCL SDA RES
ABCK


K1 (AUDIO INTER FACE / AUDIO IN OUT)
IC2101 SW BUFFER
IC2102 SW BUFFER
J701
J702
J703
J704
J705
J706
VIDEO 1
VIDEO 2
RGB
AUDIO IN
AUDIO OUT
CONTROL S
SIRCS IN
SIRCS OUT
BUFFER Q703
BUFFER Q704
CN701
K2 (VIDEO INTER FACE / VIDEO IN OUT)
TB801
C VIDEO 1
C VIDEO 2
YC1 IN
YC2 IN
CN812 YC1 OUT
CN813 YC2 OUT
IC801 SW BUFFER
IC802 SW BUFFER
IC803 SW BUFFER
IC808 SW BUFFER
S801 75 TERM
S802 RGB YPBPR
S803 AUTO
IC804 CONTROL
CN801
CN802
CN803
REF
C VIDEO
Y
C
YC ENABLE
R
G
B
H/HV
V
R/R-Y
G/Y
B/B-Y
C VIDEO OUT
TB802

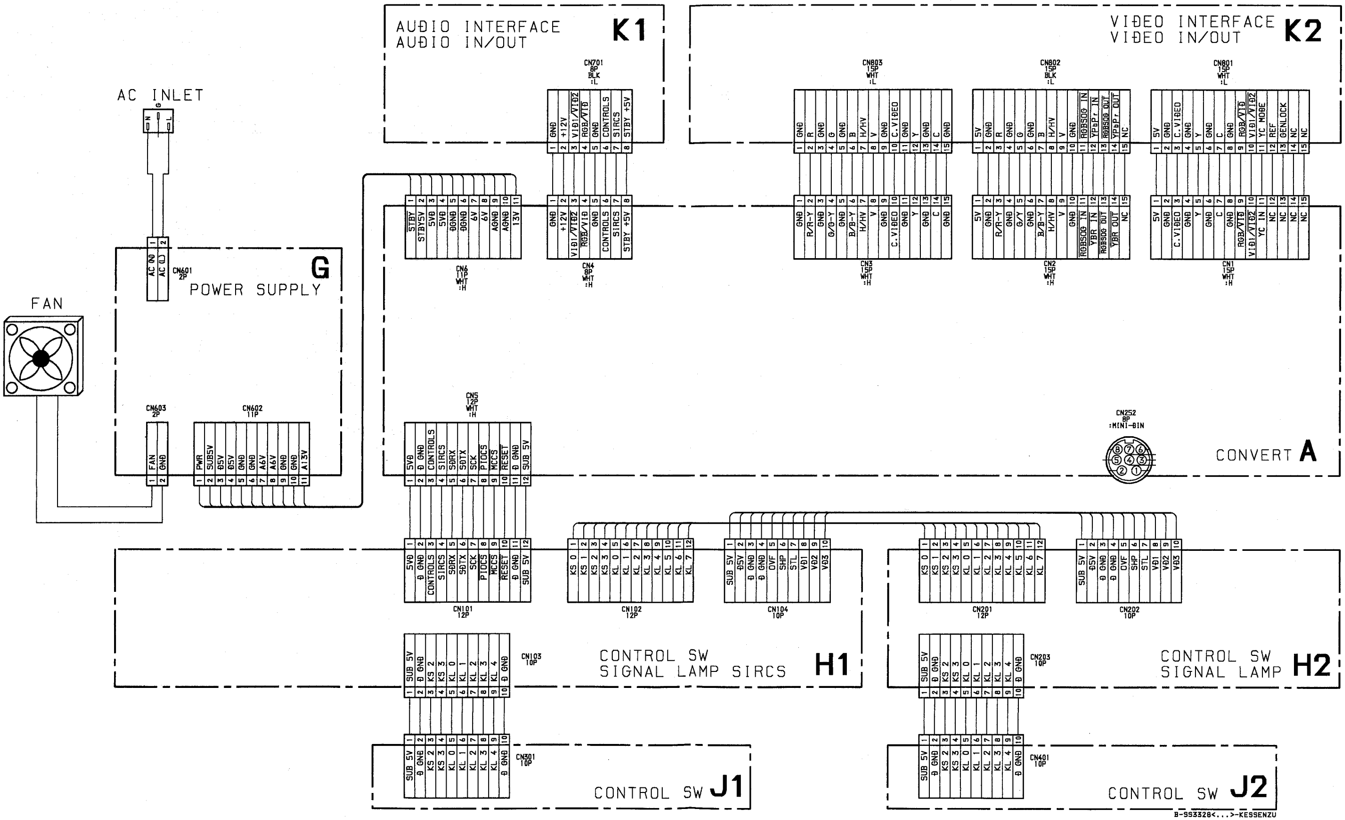

A/D OUT 24
R (8bit)
G (8bit)
B (8bit)
IC200 BUFFER
IC201 LINE MEMORY A
IC202 LINE MEMORY B
IC203 FRAME MEM A
IC204 FRAME MEM C
IC205 FRAME MEM B
IC206 FRAME MEM D
IC207 VERTICAL DIGITAL FILT
IC208 BUFFER
A (2/10) B-MEM BLOCK
A (3/10) G-MEM BLOCK
A (4/10) R-MEM BLOCK
FRAME MEMORY WRITE CONTROL
MEMORY READ CONTROL
FRAME
MUTE
CS
OE
IC250 SYSTEM CONTROL
IC275 BUFFER
IC276 BUFFER
IC277 BUFFER
IC264 CLOCK GEN
VCO CLK
VCO DATA
X251 14.3MHz
1 CLOCK ELIMINATE
IC1518 CLOCK SW
IC271 CLOCK SW
IC1500 CLOCK SW
IC265 CLOCK INJECTOR
IC266
IC270 PRESCALER 1/2
IC267
IC272 PLL CLOCK GEN
IC251 DATA ROM
HD
VS IN
A (7/10) CPU BLK
A (1/10) D/A ENCODER
IC703 D/A CONVERTER
IC705 OSD ADD
IC710 RGB AMP
IC711 CLAMP PULSE GEN
IC1525 PRESCALER 1/4
IC1515 PRESCALER 1/4
CPU RESET
IC1504 ODD/EVEN
IC1519 PRESCALER 1/8
IC1509 PRESCALER
IC1510 X2 AMP
BPF
LPF
IC1507
AMP
IC1506 CLOCK SW
CN1 REF

MEM BLOCK IC DESCRIPTION

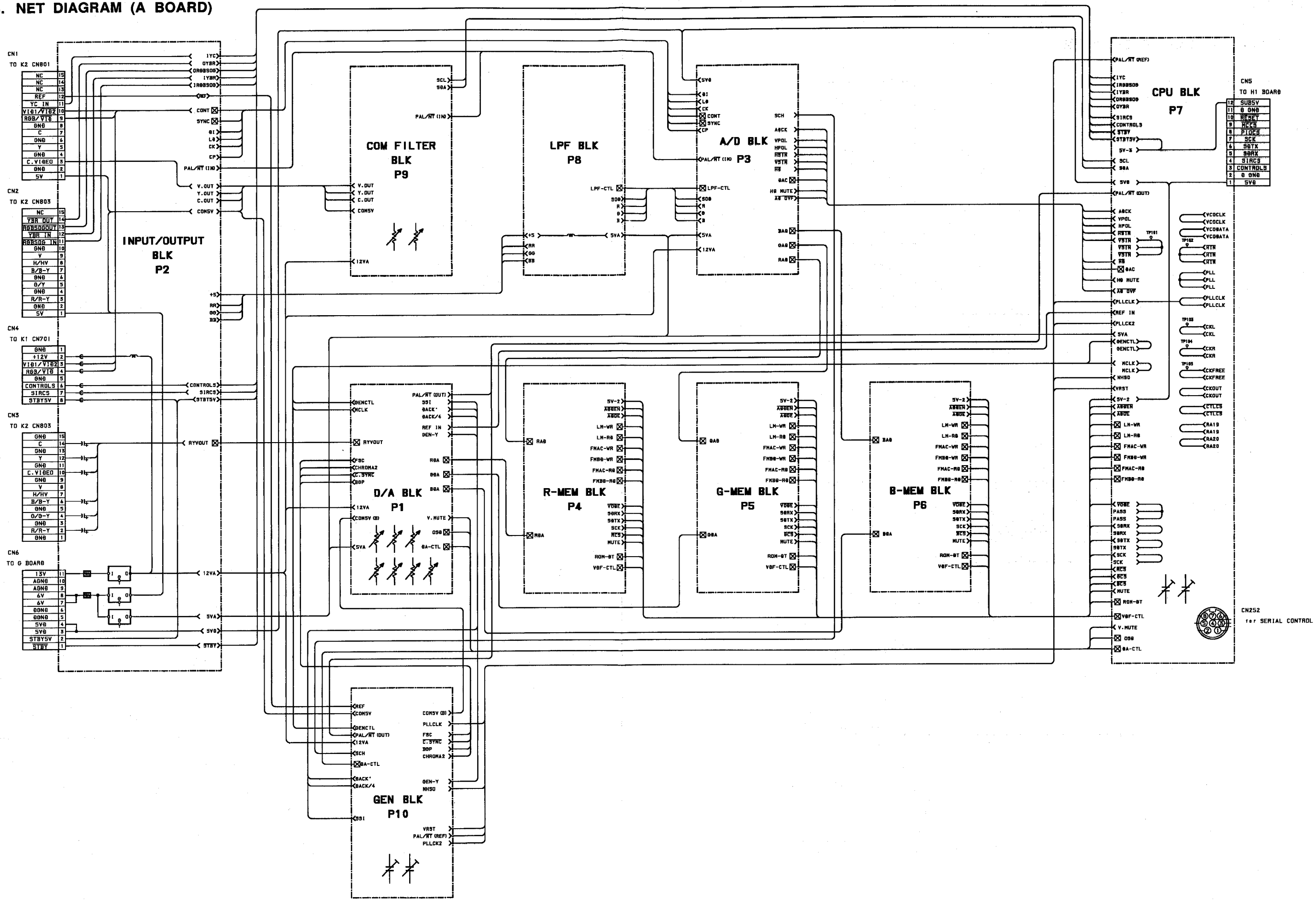
R	IC200	IC201	IC202	IC208	IC203	IC204	IC205	IC206	IC207
G	IC100	IC101	IC102	IC108	IC103	IC104	IC105	IC106	IC107
B	IC150	IC151	IC152	IC158	IC153	IC154	IC155	IC156	IC157


A (6/10) (B-MEM BLOCK)
A (5/10) (R-MEM BLOCK)
A (4/10) (R-MEM BLOCK)
IC200 BUFFER
IC201 LINE MEMORY A
IC202 LINE MEMORY B
IC203 FRAME MEM A
IC204 FRAME MEM C
IC205 FRAME MEM B
IC206 FRAME MEM D
IC207 VERTICAL DIGITAL FILT
IC208 BUFFER
A/B OUT 24
R (8bit)
G (8bit)
B (8bit)
(FRAME MEMORY WRITE CONTROL)
A (1/10) (D/A ENCODER)
IC703 D/A CONVERTER
IC705 OSD ADD
IC710 RGB AMP
IC711 CLAMP PULSE GEN
IC715 S SW
IC716 S SW
IC717 S SW
YPBPR GEN. BLOCK
IC707 ENCODER
IC718 75Ω DRIVER
IC719 75Ω DRIVER
IC1508 CLOCK SW
IC701 OSD GEN/CONTROL
IC702 OSD ADD
OSD BLACK Q701
OSD WHITE Q763
IC704 SYNC SELECTOR
IC1525 PRESCALER
IC1515 PRESCALER
CN3
R/R-Y
G/Y
B/B-Y
C VIDEO
Y
C
CN5
CONTROL S
SIRCS
CN4
IC250 SYSTEM CONTROL
IC275 BUFFER
IC276 BUFFER
IC277 BUFFER
IC251 DATA ROM
(MEMORY READ CONTROL)
FRAME
IC264 CLOCK GEN
VCO CLK
VCO DATA
X251 14.3MHz
IC1518 CLOCK SW
1 CLOCK ELIMINATE
IC271 CLOCK SW
IC1500 CLOCK SW
IC265 CLOCK INJECTOR
IC266
IC270 PRESCALER
IC272 PLL CLOCK GEN
IC267
HD
VD IN
(CPU BLK)
(CPU RESET)
IC1504 ODD/EVEN
IC1519 PRESCALER
IC1509 PRESCALER
IC1507
IC1510 X2 AMP
BPF
LPF
AMP
IC1506 CLOCK SW
A (10/10) (GEN BLK)
②
⑤
⑦
⑧
Ⓔ
Ⓘ
Ⓗ
①
⑥
CK IC DESCRIPTION

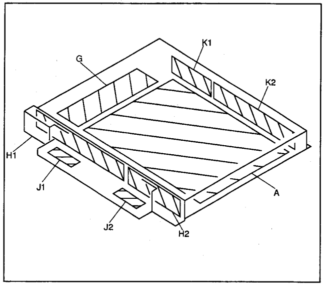
3-2. FRAME SCHEMATIC DIAGRAM


AUDIO INTERFACE
AUDIO IN/OUT
K1
CN701 8P BLK :L
VIDEO INTERFACE
VIDEO IN/OUT
K2
CN803 15P WHT :L
CN802 15P BLK :L
CN801 15P WHT :L
AC INLET
N G L
AC (N)
AC (L)
CN601 2P
POWER SUPPLY
G
FAN
CN603 2P
CN602 11P
PWR SUB5V D5V D5V GND GND A6V A6V GND GND A13V
CN6 11P WHT :H
STBY STBY5V 5VD 5VD DGND DGND 6V 6V AGND AGND 13V
CN4 8P WHT :H
GND +12V VID1/VID2 RGB/VID GND CONTROLS SIRCS STBY +5V
CN3 15P WHT :H
CN2 15P WHT :H
CN1 15P WHT :H
CN5 12P WHT :H
5VD D GND CONTROLS SIRCS SDRX SDTX SCK PIOCS MCCS RESET D GND SUB 5V
CN252 8P :MINI-DIN
CONVERT
A
CN101 12P
CN102 12P
CN104 10P
CN103 10P
CONTROL SW
SIGNAL LAMP SIRCS
H1
CN201 12P
CN202 10P
CN203 10P
CONTROL SW
SIGNAL LAMP
H2
CN301 10P
CONTROL SW
J1
CN401 10P
CONTROL SW
J2
B-SS3328<...>-KESSENZU

3-3. NET DIAGRAM (A BOARD)


CN1
TO K2 CN801
CN2
TO K2 CN803
CN4
TO K1 CN701
CN3
TO K2 CN803
CN6
TO G BOARD
INPUT/OUTPUT
BLK
P2
COM FILTER
BLK
P9
LPF BLK
P8
A/D BLK
P3
CPU BLK
P7
CN5
TO H1 BOARD
D/A BLK
P1
R-MEM BLK
P4
G-MEM BLK
P5
B-MEM BLK
P6
GEN BLK
P10
CN252
for SERIAL CONTROL

3-4. CIRCUIT BOARDS LOCATION


G
K1
K2
H1
J1
A
J2
H2

3-5. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. (pF: μμF) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power 1/4 W (CHIP : 1/10 W)

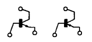
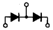
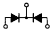
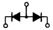
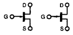
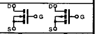
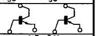
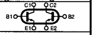
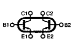
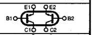
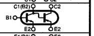
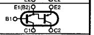
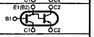
- All resistors are in ohms.
- –▭– : nonflammable resistor.
- –∿– : fusible resistor.
- △ : internal component.
- ▭ : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⊥ : earth-ground.
- ⏚ : earth-chassis.
- Description of connects for A board.

To P1 : To A (1/10)
To P2 : To A (2/10)
To P3 : To A (3/10)
To P4 : To A (4/10)
To P5 : To A (5/10)
To P6 : To A (6/10)
To P7 : To A (7/10)
To P8 : To A (8/10)
To P9 : To A (9/10)
To P9 : To A (9/10)
To P10 : To A (10/10)

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

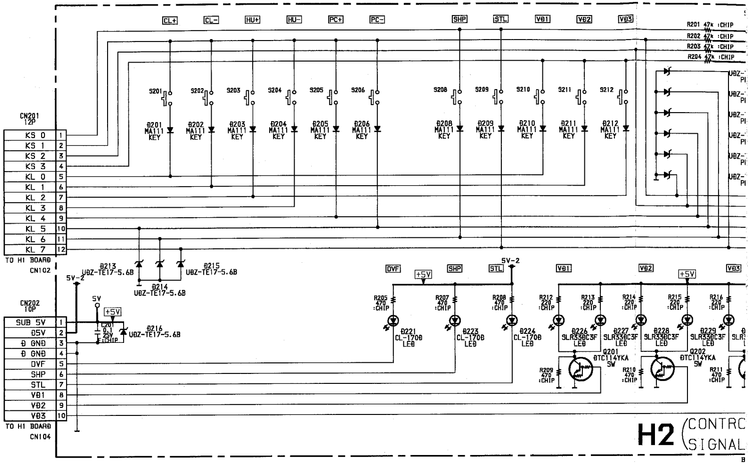
Terminal name of semiconductors in silk screen printed circuit (✻)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	┳	Collector Base ┳ Emitter	
②	Transistor	▬	Collector ▬ Base Emitter	
③	Diode	⊓	Cathode ⊓ Anode	
④	Diode	┳	Cathode Anode ┳ (NC)	
⑤	Diode	▬	Cathode ▬ Anode (NC)	
⑥	Diode	┳	Common Anode ┳ Cathode	
⑦	Diode	▬	Common ▬ Anode Cathode	
⑧	Diode	┳	Common Anode ┳ Anode	
⑨	Diode	▬	Common ▬ Anode Anode	
⑩	Diode	┳	Common Cathode ┳ Cathode	
⑪	Diode	▬	Common ▬ Cathode Cathode	
⑫	Transistor (FET)	▮	Drain ▮ Source Gate	
⑬	Transistor (FET)	┣	Drain ┣ Source Gate	
⑭	Transistor (FET)	▮	▯ □ Source □ Drain □ Gate	
⑮	Transistor	▮	▯ □ Emitter □ Collector □ Base	
⑯	Transistor	╪	C2 B1 E1 ▬ E2 B2 C1	
⑰	Transistor	╪	C1 B2 E2 ▬ E1 B1 C2	
⑱	Transistor	▬	C1 B2 E2 ▬ E1 B1 C2	
⑲	Transistor	▬	C1 B2 E2 ▬ E1 B1 C2	
⑳	Transistor	▬	E2 B1 E1 ▬ C2 C1(B2)	
㉑	Transistor	▬	(B2) B1 E1 E2 ▬ C1 C2	
㉒	Transistor	▬	(B2) E2 E1 B1 ▬ C2 C1	
–	Discrete semiconductot			

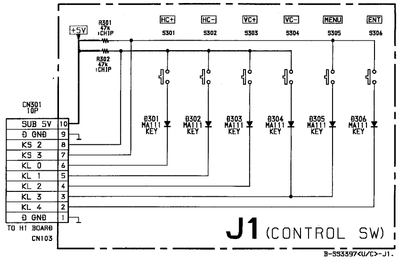
(Chip semiconductors that are not actually used are included.)

Ver.1.4

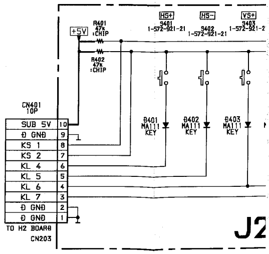
(13) H2 Board (CONTROL SW, SIGNAL LAMP)

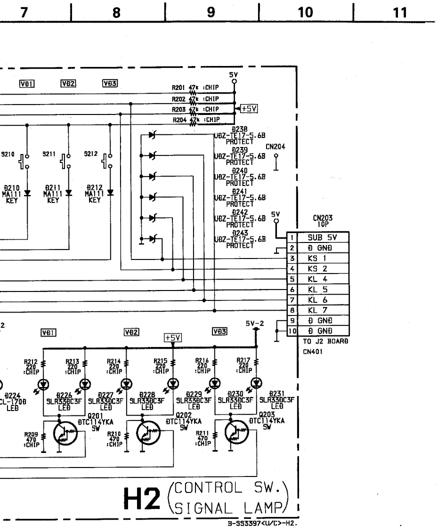

CL+
CL–
HU+
HU–
PC+
PC–
SHP
STL
VB1
VB2
VB3
R201 47k :CHIP
R202 47k :CHIP
R203 47k :CHIP
R204 47k :CHIP
S201
S202
S203
S204
S205
S206
S208
S209
S210
S211
S212
D201 MA111 KEY
D202 MA111 KEY
D203 MA111 KEY
D204 MA111 KEY
D205 MA111 KEY
D206 MA111 KEY
D208 MA111 KEY
D209 MA111 KEY
D210 MA111 KEY
D211 MA111 KEY
D212 MA111 KEY
CN201 12P
KS 0 1
KS 1 2
KS 2 3
KS 3 4
KL 0 5
KL 1 6
KL 2 7
KL 3 8
KL 4 9
KL 5 10
KL 6 11
KL 7 12
TO H1 BOARD CN102
D213 UDZ-TE17-5.6B
D214 UDZ-TE17-5.6B
D215 UDZ-TE17-5.6B
D216 UDZ-TE17-5.6B
5V-2
5V
+5V
C201 0.1 25V :CHIP
CN202 10P
SUB 5V 1
D5V 2
D GND 3
D GND 4
DVF 5
SHP 6
STL 7
VB1 8
VB2 9
VB3 10
TO H1 BOARD CN104
DVF
SHP
STL
VB1
VB2
VB3
R205 470 :CHIP
R207 470 :CHIP
R208 470 :CHIP
R212 220 :CHIP
R213 220 :CHIP
R214 220 :CHIP
R215 220 :CHIP
R216 220 :CHIP
D221 CL-170B LED
D223 CL-170B LED
D224 CL-170B LED
D226 SLR330CF LED
D227 SLR330CF LED
D228 SLR330CF LED
D229 SLR330CF LED
Q201 DTC114YKA SW
Q202 DTC114YKA SW
R209 470 :CHIP
R210 470 :CHIP
R211 470 :CHIP
H2 (CONTRO SIGNAL

(16) J1 Board (CONTROL SW)

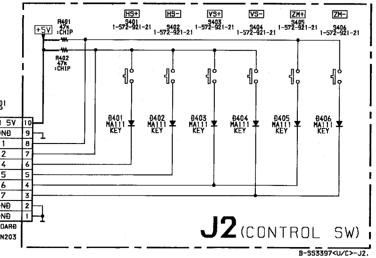

+5V
R301 47k :CHIP
R302 47k :CHIP
HC+
HC–
VC+
VC–
MENU
ENT
S301
S302
S303
S304
S305
S306
D301 MA111 KEY
D302 MA111 KEY
D303 MA111 KEY
D304 MA111 KEY
D305 MA111 KEY
D306 MA111 KEY
CN301 10P
SUB 5V 10
D GND 9
KS 2 8
KS 3 7
KL 0 6
KL 1 5
KL 2 4
KL 3 3
KL 4 2
D GND 1
TO H1 BOARD CN103
J1 (CONTROL SW)
B-553397<U/C>-J1.

(17) J2 Board (CONTROL SW)


+5V
R401 47k :CHIP
R402 47k :CHIP
HS+
HS–
VS+
S401 1-572-921-21
S402 1-572-921-21
S403 1-572-921-2
D401 MA111 KEY
D402 MA111 KEY
D403 MA111 KEY
CN401 10P
SUB 5V 10
D GND 9
KS 1 8
KS 2 7
KL 4 6
KL 5 5
KL 6 4
KL 7 3
D GND 2
D GND 1
TO H2 BOARD CN203
J2


7
8
9
10
11
5V
R201 47k :CHIP
R202 47k :CHIP
R203 47k :CHIP
R204 47k :CHIP
+5V
S210
S211
S212
D210 MA111 KEY
D211 MA111 KEY
D212 MA111 KEY
D238 UDZ-TE17-5.6B PROTECT
D239 UDZ-TE17-5.6B PROTECT
D240 UDZ-TE17-5.6B PROTECT
D241 UDZ-TE17-5.6B PROTECT
D242 UDZ-TE17-5.6B PROTECT
D243 UDZ-TE17-5.6B PROTECT
CN204
CN203 10P
1 SUB 5V
2 D GND
3 KS 1
4 KS 2
5 KL 4
6 KL 5
7 KL 6
8 KL 7
9 D GND
10 D GND
TO J2 BOARD CN401
5V-2
R212 220 :CHIP
R213 220 :CHIP
R214 220 :CHIP
R215 220 :CHIP
R216 220 :CHIP
R217 220 :CHIP
D224 CL-170D LED
D226 SLR338C3F LED
D227 SLR338C3F LED
D228 SLR338C3F LED
D229 SLR338C3F LED
D230 SLR338C3F LED
D231 SLR338C3F LED
Q201 DTC114YKA SW
Q202 DTC114YKA SW
Q203 DTC114YKA SW
R209 470 :CHIP
R210 470 :CHIP
R211 470 :CHIP
H2 (CONTROL SW. SIGNAL LAMP)
B-SS3397<U/C>-H2.

J2 Board (CONTROL SW)


HS+
HS-
VS+
VS-
ZM+
ZM-
+5V
R401 47k :CHIP
R402 47k :CHIP
S401 1-572-921-21
S402 1-572-921-21
S403 1-572-921-21
S404 1-572-921-21
S405 1-572-921-21
S406 1-572-921-21
D401 MA111 KEY
D402 MA111 KEY
D403 MA111 KEY
D404 MA111 KEY
D405 MA111 KEY
D406 MA111 KEY
J2 (CONTROL SW)
B-SS3397<U/C>-J2.

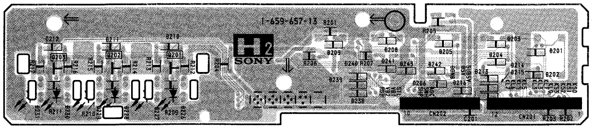
H2 [CONTROL SW SIGNAL LAMP] **J1** [CONTROL SW] **J2** [CONTROL SW]

H2 BOARD
Terminal name of semiconductors in silk screen printed circuit (*)

Ref.	*
Q201–Q203	①
D201–D206, D208–D216, D221, D223, D224, D238–D243	③

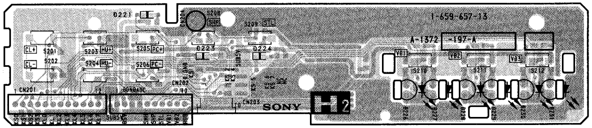
*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 25)

— H2 BOARD (Conductor side) —


1-659-657-13
SONY
H2
CN202
CN201

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

— H2 BOARD (Component side) —


1-659-657-13
A-1372-197-A
SONY
H2
CN201
CN202
CN203

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

- **J1 BOARD SEMICONDUCTOR LOCATION**

Ref.	*
D301–D306	③

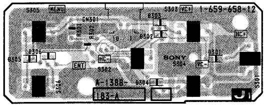
*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 25)

- **J2 BOARD SEMICONDUCTOR LOCATION**

Ref.	*
D401–D406	③

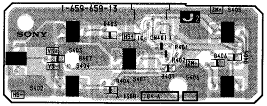
*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 25)

— J1 BOARD (Conductor side) —


1-659-658-12
A-1388-183-A
SONY
J1
MENU
ENT
CN301

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

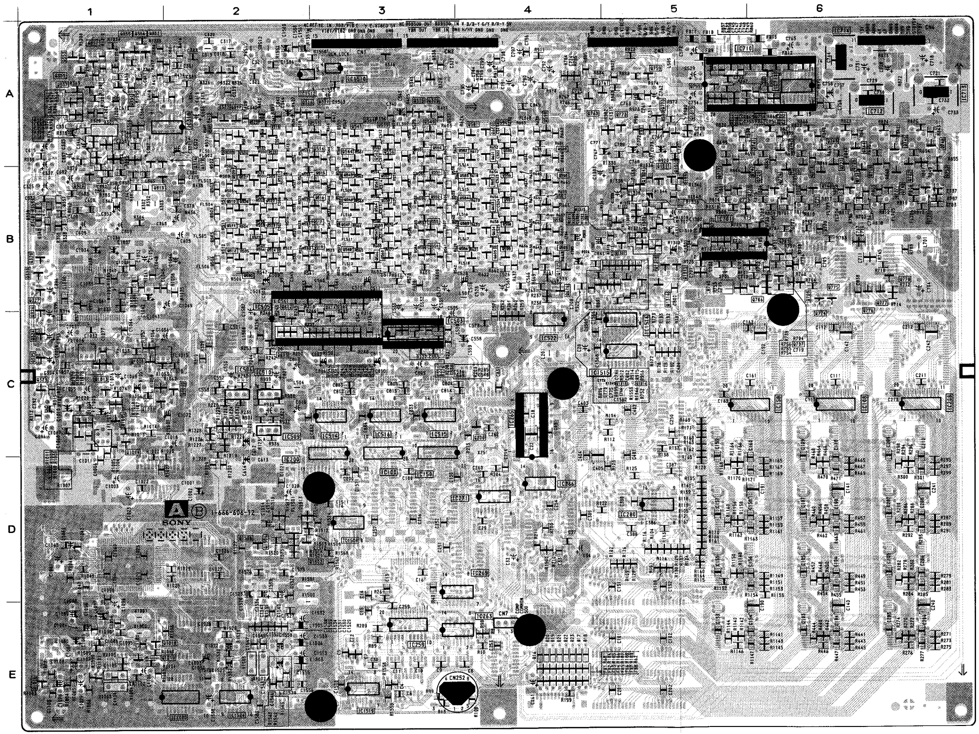
— J2 BOARD (Conductor side) —


1-659-659-13
A-1388-184-A
SONY
J2
CN401

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

A [CONTROLLER]

— A BOARD (Conductor side) —



- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

Schematic diagrams
← H2 J1 J2 boards

• A BOARD SEMICONDUCTOR LOCATION

IC	(Conductor Side)	(Component Side)
IC100	C-3	
IC101		E-3
IC102		E-3
IC103		E-2
IC104		D-2
IC105		D-2
IC106		C-2
IC107		C-1
IC108	C-6	
IC150	C-3	
IC151		D-3
IC152		D-3
IC153		E-2
IC154		D-2
IC155		D-2
IC156		C-2
IC157		C-2
IC158	C-6	
IC200	C-3	
IC201		E-3
IC202		E-3
IC203		E-1
IC204		D-1
IC205		D-1
IC206		C-1
IC207		C-1
IC208	C-6	
IC250		C-3
IC251		C-3
IC252		D-4
IC253		E-5
IC254		E-4
IC255		E-4
IC256		E-4
IC257		E-4
IC258		E-4
IC259	E-3	
IC260		E-4
IC261		D-4
IC262		D-5
IC263	E-4	
IC264		D-4
IC265		C-4
IC266	D-4	
IC267		D-3
IC268		C-3
IC269	D-3	
IC270		D-4
IC271	D-4	
IC272		D-3
IC273		D-4
IC274		D-4
IC275		D-3
IC276		D-3
IC277		D-3
IC278		D-3
IC279		E-5
IC280	D-5	
IC300		B-6
IC301		B-6
IC302		A-6
IC303		A-6
IC304		C-6
IC305		A-6
IC306		A-6
IC307		A-6
IC308		A-6
IC314		A-4
IC317		B-6
IC318	A-2	
IC319		A-6
IC321		A-6
IC322		C-6
IC501		C-6
IC502		C-6
IC503		C-4
IC504		B-3
IC505		C-5
IC506		C-6
IC507		D-5
IC508		C-4
IC509		C-5
IC510		C-5
IC511		C-5
IC512		C-4
IC513		C-5
IC514	C-3	
IC515	C-3	
IC516	C-3	
IC517		C-4
IC518		C-5
IC519		C-4
IC520		C-5
IC521		C-4
IC522	C-4	
IC701		B-2
IC702		B-2
IC703		B-1
IC704		A-3
IC705		B-2
IC707		B-3
IC708		B-1
IC710		A-2
IC711	A-6	
IC712		A-1
IC713		A-1
IC714		A-1
IC715		A-3
IC716		A-3
IC717		A-3
IC718		A-4
IC719		B-3
IC1001		B-6
IC1002		D-6
IC1003		D-6
IC1004		D-6
IC1005		E-6
IC1006		C-6
IC1007		C-6
IC1008		E-6
IC1009		E-6
IC1010		D-6
IC1500		D-4
IC1501		E-4
IC1502		D-4
IC1503		D-3
IC1504		A-5
IC1505		E-5
IC1506		E-5
IC1507		E-5
IC1508	D-3	
IC1509		E-5
IC1510	A-3	
IC1512	A-2	
IC1513		B-2
IC1514	C-5	
IC1515	C-5	
IC1516		D-5
IC1517		D-4
IC1518		D-4
IC1519	E-3	
IC1521		D-5
IC1522		D-5
IC1523		E-6
IC1524	E-2	
IC1525		C-2
IC1526		A-5
IC1527		A-5

TRANSISTOR	(Conductor Side)	(Component Side)	*
Q1		D-4	②
Q200	C-4		①
Q215		C-3	②
Q307	A-1		①
Q310	B-1		①
Q311		A-6	②
Q313	B-1		①
Q314	A-1		①
Q315	A-3		①
Q316	A-2		①
Q317	A-2		①
Q318	A-1		①
Q320	A-3		①
Q321	A-3		①
Q322	A-2		①
Q323	C-1		①
Q324	C-1		①
Q325	C-1		①
Q326	B-1		①
Q327	B-1		①
Q328	B-1		①
Q329	B-1		①
Q351	A-1		①
Q352	A-1		①
Q353	A-1		①
Q354		A-6	②
Q355	A-1		①
Q356	A-1		①
Q357	A-1		①
Q358		A-6	②
Q359	A-1		①
Q501		A-6	②
Q503		B-6	②
Q504		B-6	②
Q505		B-6	②
Q506		B-6	②
Q507	A-2		①
Q508	A-2		①
Q509	B-2		①
Q510	B-2		①
Q511	B-2		①
Q512	B-2		①
Q513	A-3		①
Q514	A-3		①
Q515	B-3		①
Q516	B-3		①
Q517	B-3		①
Q518	B-3		①
Q519	A-2		①
Q520	A-2		①
Q521	B-2		①
Q522	B-2		①
Q523	B-2		①
Q524	B-2		①
Q525	A-2		①
Q526	A-2		①
Q527	B-2		①
Q528	B-2		①
Q529	B-2		①
Q530	B-2		①
Q531		A-5	②
Q532		A-5	②
Q533		B-5	②
Q534		B-5	②
Q535		B-5	②
Q536		B-5	②
Q537		A-5	②
Q538		A-5	②
Q539		B-5	②
Q540		B-5	②
Q541		B-5	②
Q542		B-5	②
Q543	A-3		①
Q544	A-3		①
Q545	B-3		①
Q546	B-3		①
Q547	B-3		①
Q548	B-3		①
Q549	A-3		①
Q550	A-3		①
Q551	B-3		①
Q552	B-3		①
Q553	B-3		①
Q554	B-3		①
Q555	A-3		①
Q556	A-3		①
Q557	B-3		①
Q558	B-3		①
Q559	B-3		①
Q560	B-3		①
Q561	A-3		①
Q562	B-3		①
Q563	B-3		①
Q564	B-3		①
Q565	B-3		①
Q566	B-3		①
Q567		A-4	②
Q568		A-4	②
Q569		B-4	②
Q570		B-4	②
Q571		B-4	②
Q572		B-4	②
Q573		B-4	②
Q574		A-4	②
Q575		A-4	②
Q576		B-4	②
Q577		B-4	②
Q578		B-4	②
Q579		B-4	②
Q580		B-4	②
Q581	A-4		①
Q582	A-4		①
Q583	B-4		①
Q584	B-4		①
Q585	B-4		①
Q586	B-4		①
Q587	B-4		①
Q588	A-4		①
Q589	A-4		①
Q590	B-4		①
Q591	B-4		①
Q592	B-4		①
Q593	B-4		①
Q594	A-4		①
Q595	A-4		①
Q596	B-4		①
Q597	B-4		①
Q598	B-4		①
Q599	B-4		①
Q600	A-4		①
Q601	B-4		①
Q602	B-4		①
Q603	B-4		①
Q604	B-4		①
Q605	B-4		①
Q606		A-3	②
Q607		A-3	②
Q608		B-3	②
Q609		B-3	②
Q610		B-3	②
Q611		B-3	②
Q612	C-2		①
Q613	C-2		①
Q614	C-3		①
Q615		B-4	②
Q616	B-4		①
Q701		B-2	②
Q703		A-3	②
Q704		A-4	②
Q705		B-2	②
Q706	B-6		①
Q710		B-2	②
Q711		B-2	②
Q712		B-1	②
Q713		B-1	②
Q714		B-2	②
Q715		B-1	②
Q716		B-1	②
Q717	B-5		①
Q718	B-6		①
Q719	B-6		①
Q720	B-6		①
Q721	B-6		①
Q722	B-6		①
Q723	B-5		①
Q724	B-6		①
Q725	B-6		①
Q726	B-6		①
Q727	B-6		①
Q728	B-6		①
Q729			
Q730			
Q731			
Q732			
Q733			
Q734			
Q735			
Q736			
Q737			
Q738			
Q739			
Q740			
Q741	A-5		
Q742	A-6		
Q743	A-6		
Q744	A-6		
Q745	A-6		
Q746	A-6		
Q747	B-5		
Q748	B-6		
Q749	B-5		
Q750	B-6		
Q751	B-6		
Q752	B-6		
Q753			
Q754	A-5		
Q755	A-5		
Q759	A-5		
Q760	A-4		
Q761	A-4		
Q763	B-6		
Q764			
Q765			
Q766			
Q767			
Q768			
Q769			
Q770	A-5		
Q771			
Q772			
Q773	A-5		
Q774	B-6		
Q775	B-6		
Q776	B-6		
Q777	B-6		
Q778	B-6		
Q1001			
Q1002			
Q1003	C-1		
Q1004	C-1		
Q1005	C-1		
Q1006			
Q1007			
Q1008	C-1		
Q1009	C-1		
Q1010	C-2		
Q1011			
Q1012			
Q1013	C-1		
Q1014			
Q1015			
Q1016	E-1		
Q1017			
Q1018	E-1		
Q1019	E-1		
Q1020			
Q1301			
Q1302	B-5		
Q1303			
Q1304	B-5		
Q1305			
Q1306			
Q1307	B-5		
Q1308	B-5		
Q1309			
Q1310	B-5		
Q1311	B-5		
Q1312			
Q1313	B-5		
Q1314	B-5		
Q1315	B-5		
Q1316	B-5		
Q1318	B-5		
Q1319	A-5		
Q1320			
Q1321			
Q1322			
Q1501			
Q1502	D-		
Q1503			
Q1504	D-		
Q1505			

DI	(Co
D1	
D16	E-
D17	E-
D18	E-
D19	E-
D20	E-
D21	E-
D22	E-
D23	E-
D306	
D308	
D310	

CATION

Q532		A–5	②
Q533		B–5	②
Q534		B–5	②
Q535		B–5	②
Q536		B–5	②
Q537		A–5	②
Q538		A–5	②
Q539		B–5	②
Q540		B–5	②
Q541		B–5	②
Q542		B–5	②
Q543	A–3		①
Q544	A–3		①
Q545	B–3		①
Q546	B–3		①
Q547	B–3		①
Q548	B–3		①
Q549	A–3		①
Q550	A–3		①
Q551	B–3		①
Q552	B–3		①
Q553	B–3		①
Q554	B–3		①
Q555	A–3		①
Q556	A–3		①
Q557	B–3		①
Q558	B–3		①
Q559	B–3		①
Q560	B–3		①
Q561	A–3		①
Q562	B–3		①
Q563	B–3		①
Q564	B–3		①
Q565	B–3		①
Q566	B–3		①
Q567		A–4	②
Q568		A–4	②
Q569		B–4	②
Q570		B–4	②
Q571		B–4	②
Q572		B–4	②
Q573		B–4	②
Q574		A–4	②
Q575		A–4	②
Q576		B–4	②
Q577		B–4	②
Q578		B–4	②
Q579		B–4	②
Q580		B–4	②
Q581	A–4		①
Q582	A–4		①
Q583	B–4		①
Q584	B–4		①
Q585	B–4		①
Q586	B–4		①
Q587	B–4		①
Q588	A–4		①
Q589	A–4		①
Q590	B–4		①
Q591	B–4		①
Q592	B–4		①
Q593	B–4		①
Q594	A–4		①
Q595	A–4		①
Q596	B–4		①
Q597	B–4		①
Q598	B–4		①
Q599	B–4		①
Q600	A–4		①
Q601	B–4		①
Q602	B–4		①
Q603	B–4		①
Q604	B–4		①
Q605	B–4		①
Q606		A–3	②
Q607		A–3	②
Q608		B–3	②
Q609		B–3	②
Q610		B–3	②
Q611		B–3	②
Q612	C–2		①
Q613	C–2		①
Q614	C–3		①
Q615		B–4	②
Q616	B–4		①
Q701		B–2	②
Q703		A–3	②
Q704		A–4	②
Q705		B–2	②
Q706	B–6		①
Q710		B–2	②
Q711		B–2	②
Q712		B–1	②
Q713		B–1	②
Q714		B–2	②
Q715		B–1	②
Q716		B–1	②
Q717	B–5		①
Q718	B–6		①
Q719	B–6		①
Q720	B–6		①
Q721	B–6		①
Q722	B–6		①
Q723	B–5		①
Q724	B–6		①
Q725	B–6		①
Q726	B–6		①
Q727	B–6		①
Q728	B–6		①
Q729		A–2	②
Q730		A–2	②
Q731		A–2	②
Q732		A–1	②
Q733		A–1	②
Q734		A–1	②
Q735		A–2	②
Q736		A–2	②
Q737		A–2	②
Q738		A–1	②
Q739		A–1	②
Q740		A–1	②
Q741	A–5		①
Q742	A–6		①
Q743	A–6		①
Q744	A–6		①
Q745	A–6		①
Q746	A–6		①
Q747	B–5		①
Q748	B–6		①
Q749	B–6		①
Q750	B–6		①
Q751	B–6		①
Q752	B–6		①
Q753		A–3	②
Q754	A–5		①
Q755	A–5		①
Q759	A–5		①
Q760	A–4		①
Q761	A–4		①
Q763	B–6		①
Q764		B–2	②
Q765		A–3	②
Q766		A–2	②
Q767		A–2	②
Q768		A–3	②
Q769		A–3	②
Q770	A–5		①
Q771		A–3	②
Q772		A–3	②
Q773	A–5		①
Q774	B–6		①
Q775	B–6		①
Q776	B–6		①
Q777	B–6		①
Q778	B–6		①
Q1001		C–6	②
Q1002		C–6	②
Q1003	C–1		①
Q1004	C–1		①
Q1005	C–1		①
Q1006		C–6	②
Q1007		C–6	②
Q1008	C–1		①
Q1009	C–1		①
Q1010	C–2		①
Q1011		C–6	②
Q1012		C–6	②
Q1013	C–1		①
Q1014		C–6	②
Q1015		E–6	②
Q1016	E–1		①
Q1017		E–6	②
Q1018	E–1		①
Q1019	E–1		①
Q1020		E–6	②
Q1301		B–3	②
Q1302	B–5		①
Q1303		B–3	②
Q1304	B–5		①
Q1305		B–3	②
Q1306		B–3	②
Q1307	B–5		①
Q1308	B–5		①
Q1309		B–3	②
Q1310	B–5		①
Q1311	B–5		①
Q1312		B–3	②
Q1313	B–5		①
Q1314	B–5		①
Q1315	B–5		①
Q1316	B–5		①
Q1318	B–5		①
Q1319	A–5		①
Q1320		B–3	②
Q1321		B–3	②
Q1322		B–3	②
Q1501		D–5	②
Q1502	D–2		①
Q1503		D–5	②
Q1504	D–2		①
Q1505		D–5	②

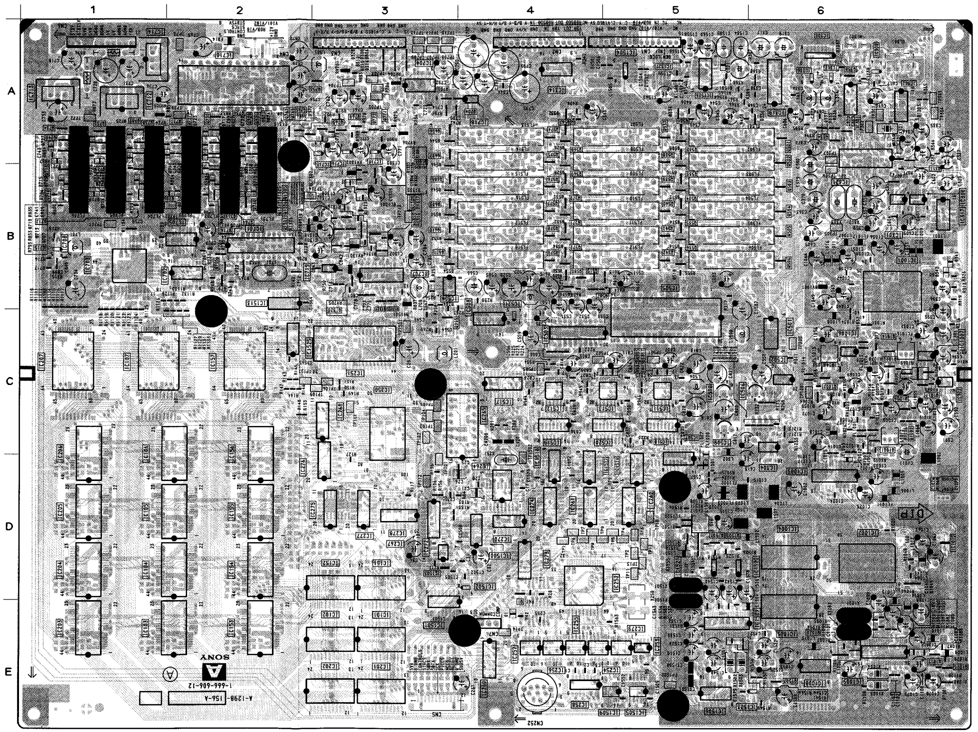
DIODE

	(Conductor Side)	(Component Side)	*
D1		E–4	③
D16	E–4		③
D17	E–4		③
D18	E–4		③
D19	E–4		③
D20	E–4		③
D21	E–4		③
D22	E–4		③
D23	E–4		③
D306		A–3	⑦
D308		A–3	⑦
D310		A–3	⑦
D312		A–3	⑦
D314		A–3	⑦
D324	A–2		⑥
D326	A–2		⑥
D328		A–3	⑦
D329	A–3		⑥
D330	A–3		⑥
D331		A–6	③
D332		A–4	⑦
D334		A–5	⑦
D336		A–6	⑦
D337	B–1		③
D338	B–1		③
D339	B–1		③
D340	B–1		③
D341		B–6	③
D342		B–6	③
D501	A–2		③
D502	A–2		③
D503	B–2		③
D504	B–2		③
D505	B–2		③
D506	B–2		③
D508		A–5	⑦
D510		B–5	⑦
D512		B–5	⑦
D514		B–5	⑦
D516		B–5	⑦
D518		B–5	⑦
D520	A–3		③
D521	B–3		③
D522	B–3		③
D523	B–3		③
D524	B–3		③
D526		A–4	⑦
D528		B–4	⑦
D530		B–4	⑦
D534		B–4	⑦
D536		B–4	⑦
D537	A–3		③
D538	B–3		③
D539	B–3		③
D540	B–3		③
D541	B–3		③
D542	B–3		③
D544		B–3	⑦
D546		B–3	⑦
D548		B–3	⑦
D550		B–3	⑦
D552		B–3	⑦
D554		A–3	⑦
D555	A–3		③
D701	B–6		③
D702	B–6		③
D703	B–6		③
D704		B–2	③
D705		B–2	③
D706		B–2	③
D707		B–1	③
D708		B–1	③
D709		B–1	③
D710		B–2	③
D711		B–2	③
D712		B–2	③
D713		B–1	③
D714		B–2	③
D715		B–1	③
D716		A–2	③
D717		A–2	③
D718		A–2	③
D719		A–1	③
D720		B–1	③
D721		A–1	③
D722		A–2	③
D723		A–2	③
D724		A–2	③
D725		A–1	③
D726		A–1	③
D727		A–1	③
D1001		D–5	③
D1002		D–6	③
D1501		A–5	③

CRISTAL

	(Conductor Side)	(Component Side)
X251		D–4
X301		A–6
X302		B–6
X303		B–6
X701		B–2
X1001		E–6
X1002		E–6
X1003	E–1	E–6
X1004	E–1	E–6
X1500	D–2	D–5
X1501	D–2	D–5
X1502		E–5
X1503		E–5

— A BOARD (Component side) —

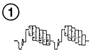
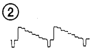
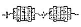
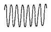
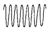
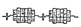
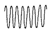
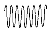


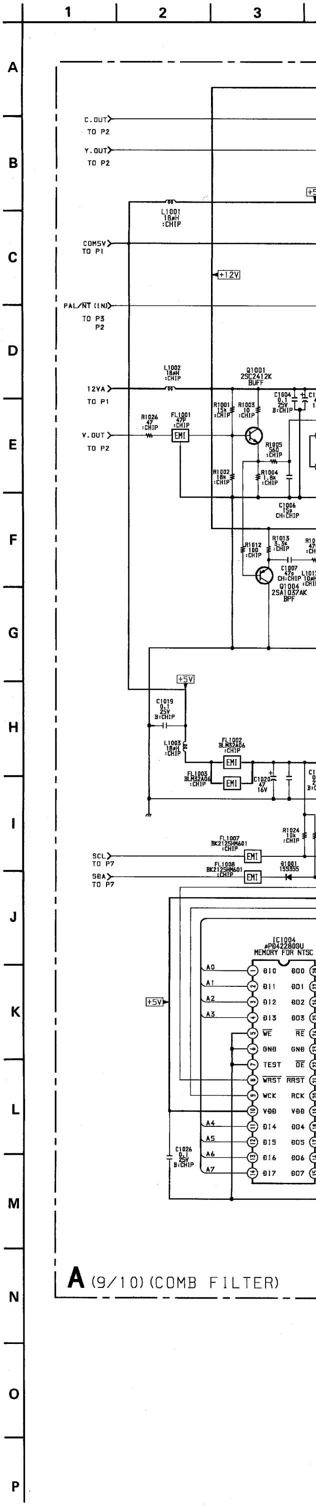
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

- **A(9/10) BOARD VOLTAGE LIST**

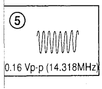
Ref.	Pin No.	Voltage [V]
IC1003	1	3.2
	3	4.9
	4	2.5
	6	0.3
	7	2.6
	8	4.9
	10	2.3
	11	4.9
	12	0
	13	0.3
	14	0.2
	15	0.2
	16	0.2
	17	0.2
	18	4.9
	20	0.2
	21	4.2
	22	0.1
	23	0.2
	24	0.4
IC1006	1	6.7
	2	0
	3	6.7
	4	0
	5	6.7
	6	12.0
	7	6.0
	8	0
IC1007	1	6.7
	2	0
	3	6.7
	4	0
	5	6.7
	6	12.0
	7	6.0
	8	0
IC1008	3	0.2
	4	0
	5	2.7
	6	0
	7	0
	8	0
	9	0
	10	0
	11	0
	12	3.0
	13	0.1
	14	3.0
	16	4.9
IC1009	1	2.9
	2	4.9
	3	2.5
	4	3.1
	5	0
	6	0
	7	3.4
	8	2.3
	9	2.6
	10	0
	11	2.9
	12	2.9
	13	3.0
	14	4.9
	15	4.9
	16	2.8
	17	0
	18	3.5
	19	0
	20	4.2
	21	4.2
	22	0.2
	23	4.0
	24	0
	25	4.9
	26	3.2
	27	2.7
	28	3.8
	29	3.8
	30	0
	31	0
	32	4.4
	33	0
	34	2.4
	35	4.4
	36	2.4
IC1010	1	0
	2	0.3
	4	4.7
	5	4.9
Q1001	B	6.4
	C	11.9
	E	5.8
Q1002	B	5.2
	C	11.9
	E	4.9
Q1003	B	1.9
	C	0
	E	2.5
Q1004	B	5.8
	C	0
	E	6.4
Q1005	B	4.7
	E	4.1
Q1006	B	4.6
	C	12.0
	E	4.0
Q1007	B	5.3
	E	4.7
Q1008	B	4.3
	E	3.6
Q1009	B	4.2
	C	8.6
	E	3.6
Q1010	B	8.6
	C	12.0
	E	7.9
Q1011	B	4.7
	E	4.1
Q1012	B	3.7
	E	3.1
Q1013	B	3.7
	C	9.0
	E	3.1
Q1014	B	9.0
	E	8.3
Q1015	B	2.1
	C	4.9
	E	1.5
Q1016	B	1.5
	C	0
	E	2.1
Q1017	B	0
	C	3.8
	E	0
Q1018	B	2.4
	C	4.8
	E	1.7
Q1019	B	0
	C	0
	E	0
Q1020	B	0.7
	C	0
	E	0

- **A(9/10) BOARD WAVEFORMS**

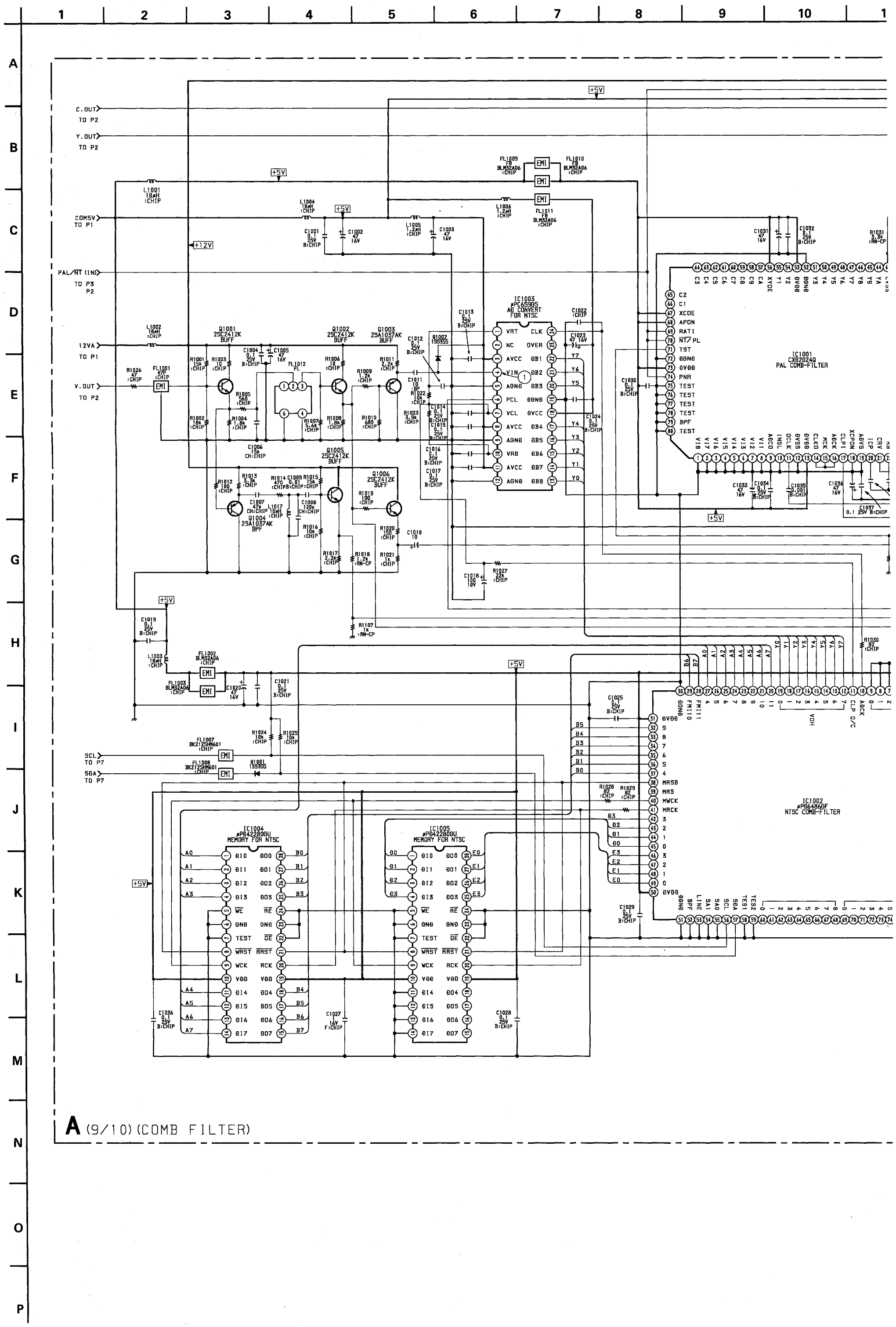
①  4.0 Vp-p (H)	②  0.4 Vp-p (H)	③  0.3 Vp-p (H)	④  0.07 Vp-p (17.7MHz)	⑤  0.16 Vp-p (14.318MHz)
⑥  0.3 Vp-p (H)	⑦  0.4 Vp-p (500KHz)	⑧  0.65 Vp-p (503KHz)		


1
2
3
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
C.OUT
TO P2
Y.OUT
TO P2
+5
L1001
18µH
:CHIP
COM5V
TO P1
+12V
PAL/NT (IN)
TO P3
P2
L1002
18µH
:CHIP
Q1001
2SC2412K
BUFF
12VA
TO P1
C1004
0.1
25V
B:CHIP
R1001
15k
:CHIP
R1003
10
:CHIP
R1026
47
:CHIP
FL1001
47P
:CHIP
EMI
V.OUT
TO P2
R1005
560
:CHIP
R1002
18k
:CHIP
R1004
1.8k
:CHIP
C1006
15p
CH:CHIP
R1013
3.3k
:CHIP
R1012
100
:CHIP
C1007
47p
CH:CHIP
Q1004
2SA1037AK
BPF
+5V
C1019
0.1
25V
B:CHIP
L1003
18µH
:CHIP
FL1002
BLM32A06
:CHIP
FL1003
BLM32A06
:CHIP
EMI
C1020
47
16V
R1024
10k
:CHIP
FL1007
BK2125HM601
:CHIP
SCL
TO P7
FL1008
BK2125HM601
:CHIP
D1001
1SS355
SDA
TO P7
IC1004
µPD42280GU
MEMORY FOR NTSC
A0
A1
A2
A3
+5V
DI0
DI1
DI2
DI3
WE
GND
TEST
WRST
WCK
VDD
DI4
DI5
DI6
DI7
DO0
DO1
DO2
DO3
RE
GND
OE
RRST
RCK
VDD
DO4
DO5
DO6
DO7
A4
A5
A6
A7
C1026
0.1
25V
B:CHIP
A (9/10) (COMB FILTER)

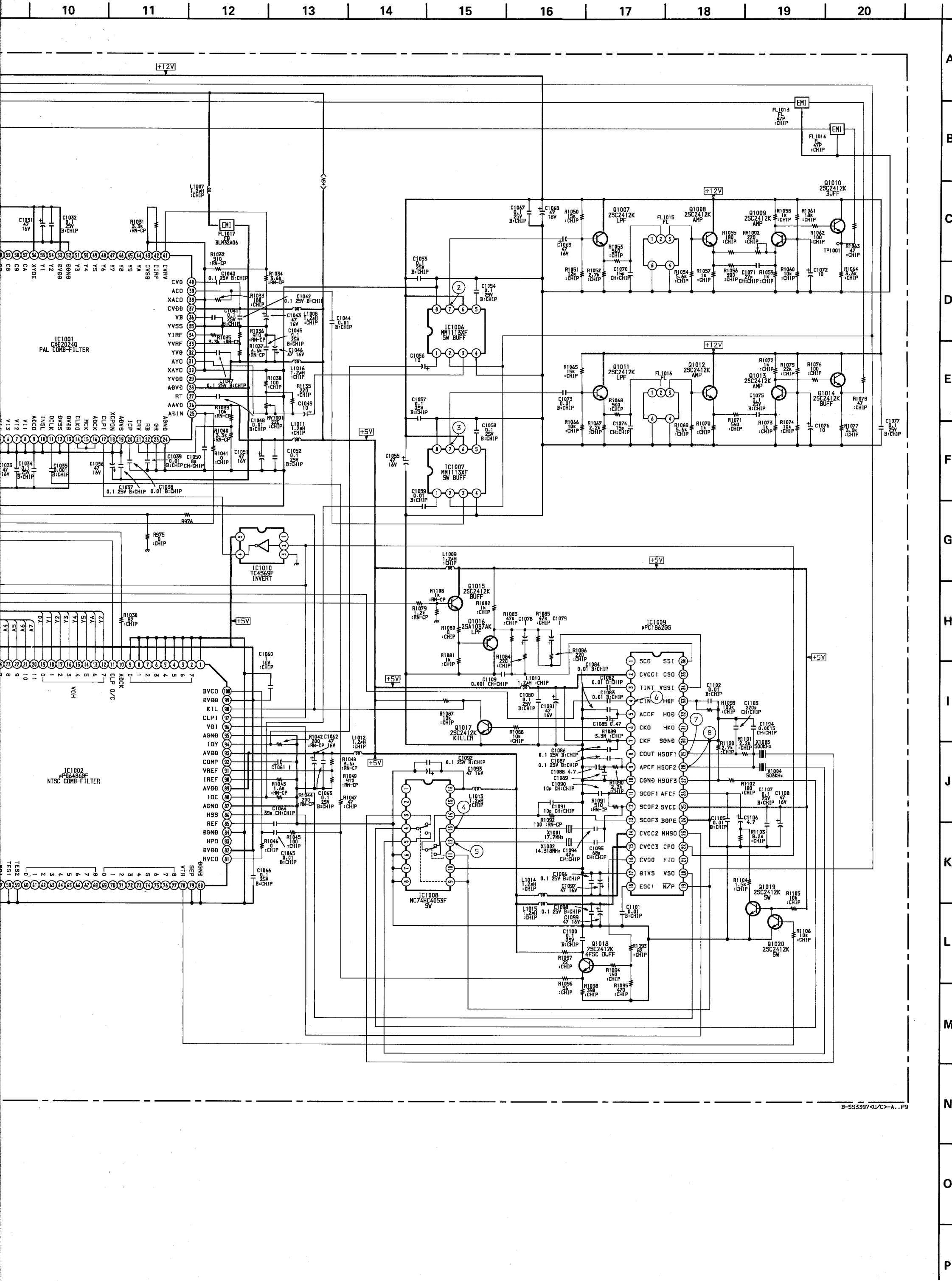
in No.	Voltage [V]
E	3.6
B	8.6
C	12.0
E	7.9
B	4.7
E	4.1
B	3.7
E	3.1
B	3.7
C	9.0
E	3.1
B	9.0
E	8.3
B	2.1
C	4.9
E	1.5
B	1.5
C	0
E	2.1
B	0
C	3.8
E	0
B	2.4
C	4.8
E	1.7
B	0
C	0
E	0
B	0.7
C	0
E	0



0.16 Vp-p (14.318MHz)

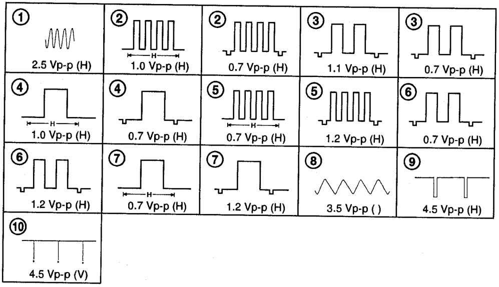

C.OUT TO P2
Y.OUT TO P2
COMSV TO P1
PAL/NT (IN) TO P3 P2
12VA TO P1
V.OUT TO P2
SCL TO P7
SDA TO P7
+5V
+12V
IC1003 μPC659GS AD CONVERT FOR NTSC
IC1001 CXD2024Q PAL COMB-FILTER
IC1002 μPD64860F NTSC COMB-FILTER
IC1004 μPD42280GU MEMORY FOR NTSC
IC1005 μPD42280GU MEMORY FOR NTSC
Q1001 2SC2412K BUFF
Q1002 2SC2412K BUFF
Q1003 2SA1037AK BUFF
Q1004 2SA1037AK BPF
Q1005 2SC2412K BUFF
Q1006 2SC2412K BUFF
FL1012 FL
FL1009 FB BLM32A06 :CHIP
FL1010 FB BLM32A06 :CHIP
FL1011 FB BLM32A06 :CHIP
FL1007 BK2125HM601 :CHIP
FL1008 BK2125HM601 :CHIP
D1001 1SS355
D1002 1SS355
1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

A (9/10) (COMB FILTER)


10
11
12
13
14
15
16
17
18
19
20
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
+12V
+5V
EMI
IC1001
CXD2024Q
PAL COMB-FILTER
IC1002
μPD64086F
NTSC COMB-FILTER
IC1006
MM1113XF
SW BUFF
IC1007
MM1113XF
SW BUFF
IC1008
MC74HC4053F
SW
IC1009
μPC1862GS
IC1010
TC4S69F
INVERT
Q1007
2SC2412K
LPF
Q1008
2SC2412K
AMP
Q1009
2SC2412K
AMP
Q1010
2SC2412K
BUFF
Q1011
2SC2412K
LPF
Q1012
2SC2412K
AMP
Q1013
2SC2412K
AMP
Q1014
2SC2412K
BUFF
Q1015
2SC2412K
BUFF
Q1016
2SA1037AK
LPF
Q1017
2SC2412K
KILLER
Q1018
2SC2412K
4FSC BUFF
Q1019
2SC2412K
SW
Q1020
2SC2412K
SW
FL1013
FL
47P
:CHIP
FL1014
FL
47P
:CHIP
FL1015
FL
FL1016
FL
FL1017
FB
BLM32A06
X1001
17.7MHz
X1002
14.318MHz
X1003
500KHz
X1004
503KHz
TP1001
2
3
4
5
6
7
8
B-SS3397<U/C>-A..P9

(8) A Board (D/A ENCODER : 1/10)

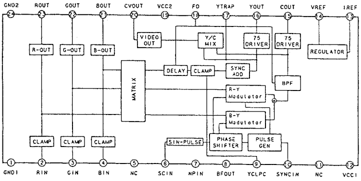
• A(1/10) BOARD WAVEFORMS



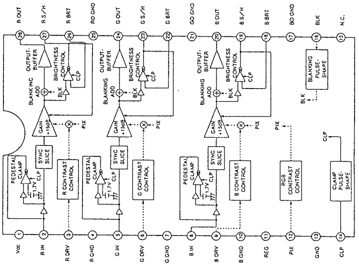
• A(1/10) BOARD VOLTAGE LIST

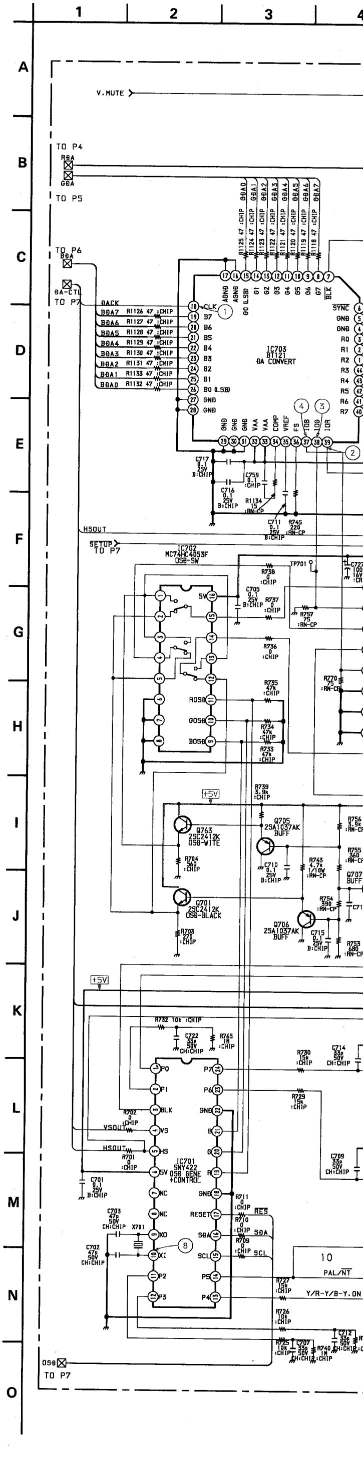
Ref.	Pin No.	Voltage [V]
IC701	1	5.0
	2	0
	3	0
	4	4.9
	5	4.3
	6	5.0
	9	*
	10	*
	11	0
	12	0
	13	4.9
	14	0
	15	4.7
	16	4.7
	17	5.0
	19	0
	20	0
	21	0
	23	0
	24	0
IC702	1	1.3
	2	0.6
	3	1.3
	4	0.7
	5	0.6
	9	0
	10	0
	11	0
	12	0.6
	13	1.3
	14	0.6
	15	0.7
	16	5.0
IC703	1	0.3
	2	0.8
	3	1.1
	6	4.4
	7	5.0
	8	1.8
	9	3.6
	10	3.6
	11	1.8
	12	3.0
	13	2.3
	14	2.4
	15	2.6
	18	2.0
	19	1.8
	20	1.8
	21	0
	22	1.8
	23	1.8
	24	1.0
	25	1.1
	26	0.9
	32	5.0
	33	5.0
	34	3.5
	35	1.3
	36	1.3
	37	0.7
	38	0.9
	39	0.8
	40	1.0
	41	0.9
	42	1.5
	43	1.0
	44	1.5
IC704	2	5.0
	3	4.1
	5	4.3
	7	4.4
	9	0
	11	4.9
	14	4.9
	16	5.0
IC705	1	0.6
	2	0.9
	3	0.6
	4	0.7
	5	0.7
	9	0
	10	0
	11	0
	12	0.8
	13	0.6
	14	0.8
	15	0.9
	16	5.0
IC707	2	0.6
	3	0.6
	4	0.6
	5	0
	6	0
	7	4.6
	8	3.8
	9	1.2
	10	0.1
	12	5.0
	13	2.0
	14	3.9
	15	2.1
	16	0.8
	17	1.4
	18	2.0
	19	5.0
	20	0.7
	21	0.6
	22	0.6
	23	0.6
IC710	1	12.0
	2	3.1
	3	3.9
	5	0
	6	3.9
	8	3.1
	9	3.9
	11	5.0
	12	3.2
	14	0.3
	15	0.2
	16	0
	18	3.9
	19	11.1
	20	3.9
	22	3.9
	23	11.2
	24	4.2
	26	3.9
	27	11.1
	28	4.0
IC711	6	0
	7	5.0
	9	4.7
	10	0.3
	11	5.0
	12	4.3
	13	5.0
	14	4.7
	16	5.0
IC712	IN	12.7
	OUT	12.0
IC713	IN	6.2
	OUT	5.0
IC714	IN	6.4
	OUT	5.0
IC715	1	3.3
	5	0
	6	3.5
	7	3.3
IC716	1	3.6
	5	0
	6	0.8
	7	3.6
IC1301	1	5.0
	2	2.5
	3	1.1
	4	5.0
	5	2.5
	6	2.6
	8	2.5
	9	2.5
	10	5.0
	11	1.1
	12	2.6
	13	5.0
	14	5.0
Q701	B	1.2
	C	5.0
	E	0.6
Q703	B	4.3
	C	5.0
	E	5.0
Q704	B	4.3
	C	5.0
	E	5.0
Q705	B	1.3
	C	0
	E	1.9
Q706	B	0.7
	C	0
	E	1.2
Q710	B	0
	C	1.8
	E	0
Q711	B	0.8
	C	0
	E	1.4
Q712	B	0.9
	C	0
	E	1.5
Q713	B	0.7
	C	0
	E	1.4
Q714	B	4.1
	C	1.4
	E	4.7
Q715	B	4.1
	C	1.5
	E	4.7
Q716	B	4.1
	C	1.4
	E	4.8
Q717	B	0
	C	2.8
	E	0
Q718	G	0
	D	3.0
	S	0
Q719	B	0
	C	2.8
	E	0
Q720	B	1.8
	C	0
	E	0
Q721	B	1.8
	C	0
	E	0
Q722	B	1.7
	C	0
	E	0
Q723	B	2.8
	C	5.0
	E	2.2
Q724	B	0
	C	5
	E	0
Q725	B	3.0
	C	5
	E	2.3
Q726	B	0
	C	5
	E	0
Q727	B	2.8
	C	5
	E	2.2
Q728	B	0
	C	5
	E	0
Q729	B	1
	C	0
	E	1.7
Q730	B	0
	C	0
	E	0.6
Q731	B	1.1
	C	0
	E	1.7
Q732	B	0
	C	0
	E	0.6
Q733	B	1.0
	C	0
	E	1.7
Q734	B	0
	C	0
	E	0.7
Q735	B	4.1
	C	1.7
	E	4.7
Q736	B	4.1
	C	1.7
	E	4.7
Q737	B	4.1
	C	1.7
	E	4.8
Q738	B	4.1
	C	0.7
	E	4.8
Q739	B	4.1
	C	1.7
	E	4.8
Q740	B	4.1
	C	0.7
	E	4.8
Q741	B	4.1
	C	0.6
	E	4.7
Q742	B	1.7
	C	0
	E	0
Q743	B	0
	C	2.5
	E	0
Q744	B	1.8
	C	0
	E	0
Q745	B	0
	C	2.4
	E	0
Q746	B	1.7
	C	0
	E	0
Q747	B	2.4
	C	5
	E	1.7
Q748	B	2.5
	C	5
	E	1.8
Q749	B	2.4
	C	5
	E	1.7
Q750	B	0
	C	5
	E	1.7
Q751	B	0
	C	5
	E	1.8
Q752	B	0
	C	5
	E	1.7
Q753	B	3.9
	C	12.6
	E	3.3
Q754	B	4.2
	C	12.6
	E	3.7
Q755	B	4.0
	C	12
	E	3.4
Q759	B	2.3
	C	0
	E	0.1
Q760	B	2.5
	C	0
	E	0
Q761	B	2.2
	C	0
	E	0.1
Q762	B	4.1
	C	5.0
	E	4.4
Q763	B	0
	C	5
	E	1.3
Q764	B	5
	C	0
	E	5
Q765	B	7.1
	C	12.0
	E	6.5
Q766	B	6.5
	C	10
	E	5.9
Q767	B	2.6
	C	5.9
	E	1.9
Q768	B	7.2
	C	12.0
	E	6.5
Q769	B	6.5
	C	10.1
	E	5.9
Q770	B	2.6
	C	5.9
	E	1.9
Q771	B	7.1
	C	12
	E	6.5
Q772	B	6.5
	C	10.0
	E	5.9
Q773	B	2.6
	C	5.9
	E	2.0
Q1301	B	4.6
	C	12
	E	4.0
Q1302	B	4.7
	C	12
	E	4.1
Q1303	B	4.6
	C	12
	E	4.0
Q1304	B	3.6
	C	9.0
	E	3.0
Q1305	B	4.7
	C	7.2
	E	4.0
Q1306	B	4.1
	C	12.0
	E	3.5
Q1307	B	3.0
	C	9.6
	E	3.6
Q1308	B	9.6
	C	12
	E	8.3
Q1309	B	9.6
	C	12
	E	9.0
Q1310	B	4.4
	C	12
	E	3.8
Q1311	B	4.1
	C	12
	E	3.5
Q1312	B	7.1
	C	4.1
	E	7.8
Q1313	G	0
	D	1.9
	S	0
Q1314	G	4.6
	D	0
	S	0
Q1315	G	5.0
	D	0.1
	S	0
Q1316	G	5.0
	D	0.1
	S	0
Q1318	G	5
	D	0.1
	S	0
Q1319	B	0
	C	0
	E	0.7
Q1320	B	0.1
	C	4.7
	E	0.1
Q1321	G	5
	D	0
	S	0
Q1322	G	5
	D	0
	S	0
Q1325	B	0
	C	5
	E	0

• A(1/10) BOARD
IC707 CXA1645M


GND2
ROUT
GOUT
BOUT
CVOUT
VCC2
FO
YTRAP
YOUT
COUT
VREF
IREF
VIDEO OUT
Y/C MIX
75 DRIVER
75 DRIVER
R-OUT
G-OUT
B-OUT
REGULATOR
DELAY
CLAMP
SYNC ADD
MATRIX
BPF
R-Y Modulator
B-Y Modulator
CLAMP
CLAMP
CLAMP
SIN-PULSE
PHASE SHIFTER
PULSE GEN
GND1
RIN
GIN
BIN
NC
SCIN
NPIN
BFOUT
YCLPC
SYNCIN
NC
VCC1

• A(1/10) BOARD
IC710 CXA1779P


R OUT
R S/H
R BRT
RO GND
G OUT
G S/H
G BRT
GO GND
B OUT
B S/H
B BRT
BO GND
BLK
N.C.
OUTPUT BUFFER
BLANKING ADD
BRIGHTNESS CONTROL
CLP
BLK
GAIN +15dB
PIX
PEDESTAL CLAMP
SYNC SLICE
1.7V
R CONTRAST CONTROL
G CONTRAST CONTROL
B CONTRAST CONTROL
RGB CONTRAST CONTROL
BLANKING PULSE SHAPE
CLAMP PULSE SHAPE
Vcc
R IN
R DRV
R GND
G IN
G DRV
G GND
B IN
B DRV
B GND
REG
PIX
GND
CLP


1
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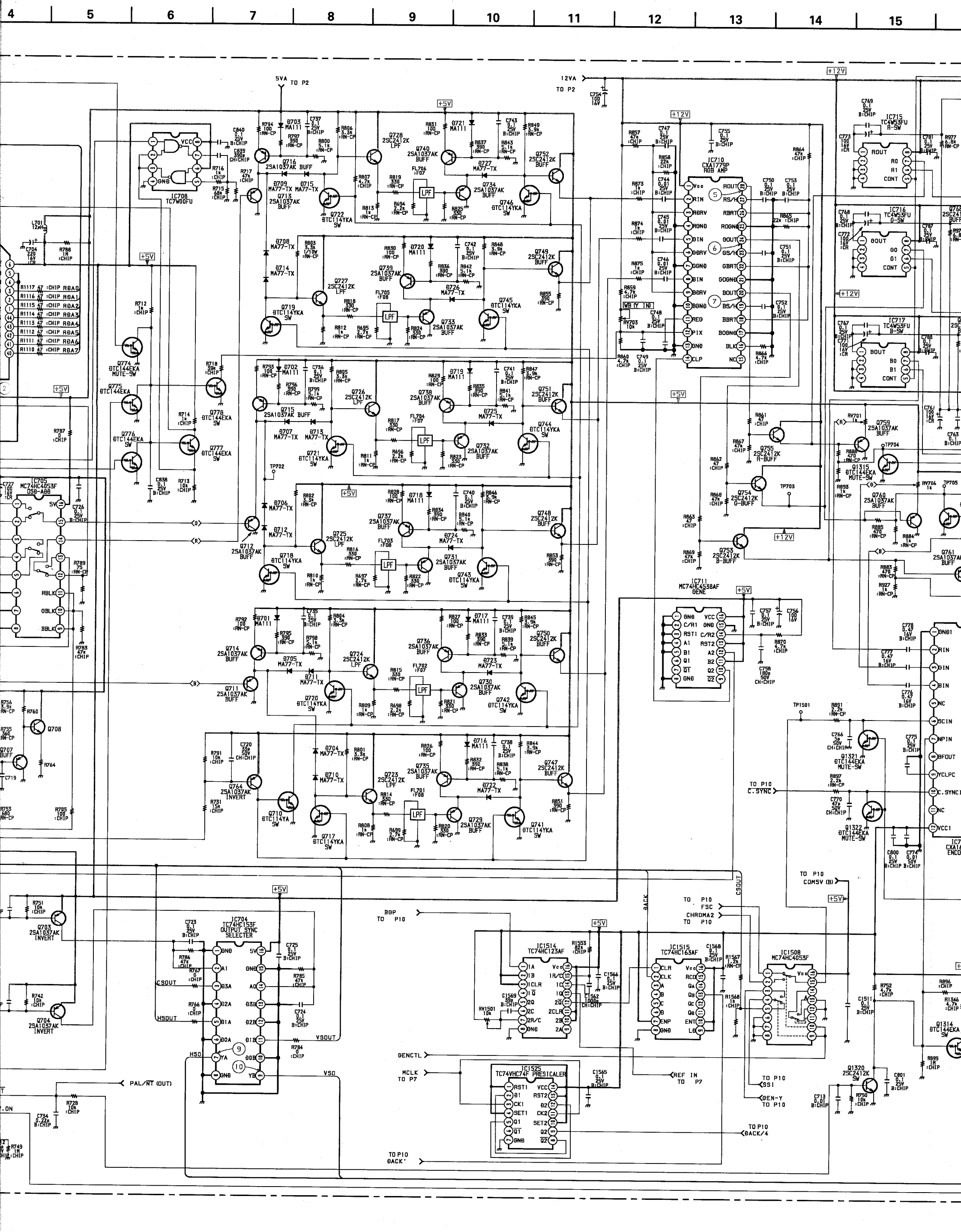
O
V.MUTE
TO P4
RGA
GGA
TO P5
TO P6
BGA
BA-CTL
TO P7
BACK
BDA7
BDA6
BDA5
BDA4
BDA3
BDA2
BDA1
BDA0
GDA0
GDA1
GDA2
GDA3
GDA4
GDA5
GDA6
GDA7
R1126 47 :CHIP
R1127 47 :CHIP
R1128 47 :CHIP
R1129 47 :CHIP
R1130 47 :CHIP
R1131 47 :CHIP
R1133 47 :CHIP
R1132 47 :CHIP
R1125 47 :CHIP
R1124 47 :CHIP
R1123 47 :CHIP
R1122 47 :CHIP
R1121 47 :CHIP
R1120 47 :CHIP
R1119 47 :CHIP
R1118 47 :CHIP
IC703
BT121
DA CONVERT
CLK
B7
B6
B5
B4
B3
B2
B1
B0 (LSB)
GND
AGND
G0 (LSB)
G1
G2
G3
G4
G5
G6
G7
BLK
SYNC
R0
R1
R2
R3
R4
R5
R6
R7
VAA
COMP
VREF
FS
IOB
IOG
IOR
①
②
③
④
C717 0.1 25V B:CHIP
C759 0.1 :CHIP
C716 0.1 25V B:CHIP
R1134 15 :RN-CP
C711 0.1 25V B:CHIP
R745 220 :RN-CP
HSOUT
SETUP
TO P7
IC702
MC74HC4053F
OSD-SW
TP701
R738 0 :CHIP
C705 0.1 25V B:CHIP
R737 0 :CHIP
R757 75 :RN-CP
5V
R736 0 :CHIP
R735 47k :CHIP
ROSD
GOSD
BOSD
R734 47k :CHIP
R733 47k :CHIP
R770 75 :RN-CP
R739 3.9k :CHIP
+5V
Q705 2SA1037AK BUFF
Q763 2SC2412K OSD-WITE
R704 560 :CHIP
C710 0.1 25V B:CHIP
R743 4.7k 1/10W :RN-CP
R756 3.9k :RN-CP
R755 360 :RN-CP
Q707 BUFF
R754 390 :RN-CP
Q701 2SC2412K OSD-BLACK
Q706 2SA1037AK BUFF
C715 0.1 25V B:CHIP
R753 680 :RN-CP
R703 270 :CHIP
+5V
R732 10k :CHIP
C722 33p 50V CH:CHIP
R765 1M :CHIP
R730 15k :CHIP
C714 33p 50V CH:CHIP
R729 15k :CHIP
IC701
SNY422
OSD GENE +CONTROL
P0
P1
BLK
VS
HS
6V
NC
NC
XO
XI
P2
P3
P7
P6
GND
B
G
R
GND
RESET
SDA
SCL
P5
P4
R702 0 :CHIP
VSOUT
HSOUT
R701 0 :CHIP
C701 0.1 25V B:CHIP
C703 47p 50V CH:CHIP
X701
⑧
C702 47p 50V CH:CHIP
R711 0 :CHIP
RES
R710 0 :CHIP
SDA
R709 0 :CHIP
SCL
C709 33p 50V CH:CHIP
10
PAL/NT
R727 15k :CHIP
Y/R-Y/B-Y.ON
R726 10k :CHIP
R725 10k :CHIP
C707 33p 50V CH:CHIP
R740
OSD
TO P7

Schematic diagram
← A (9/10) board

Schematic diagram
A (1/10) board →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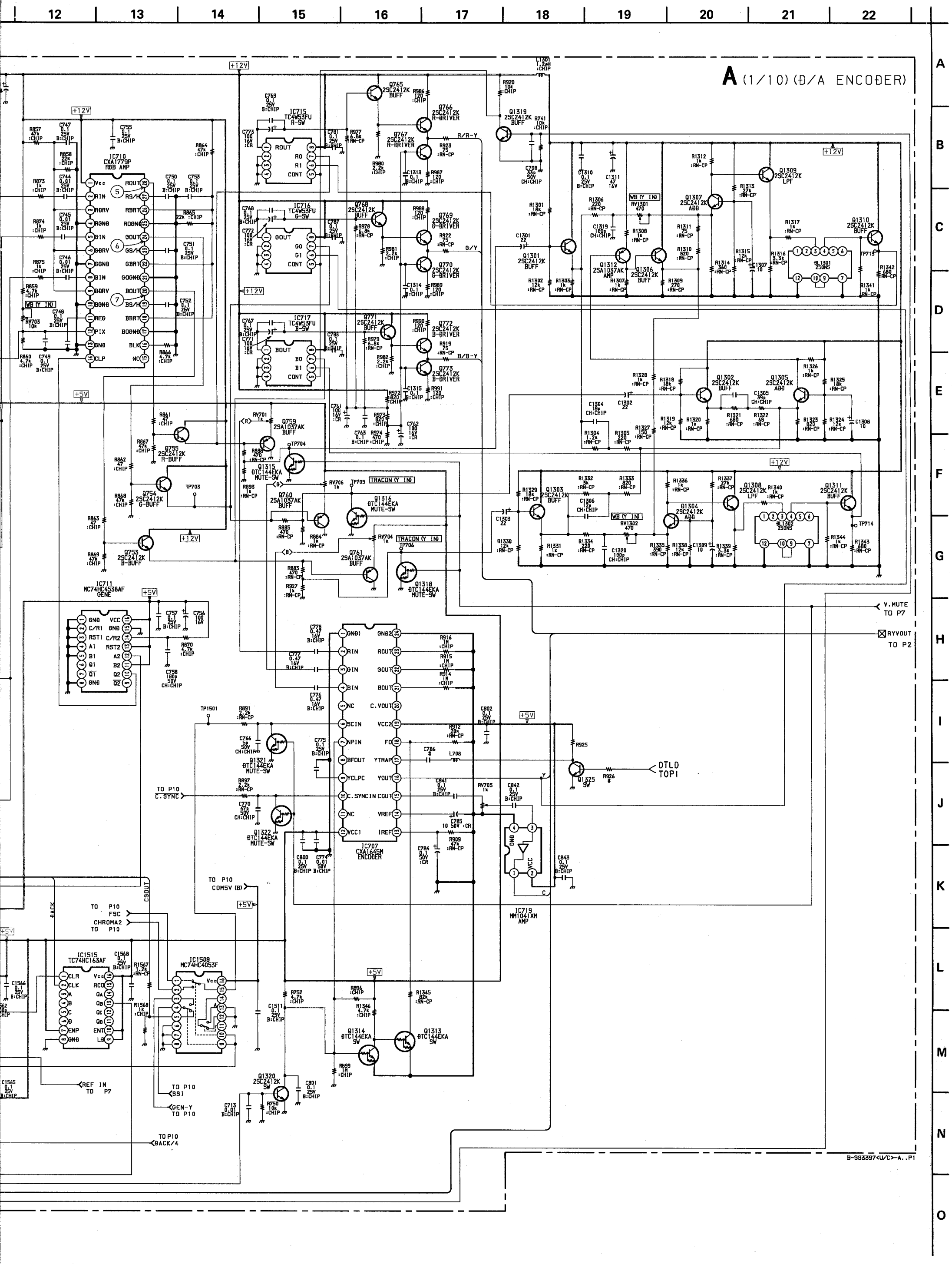
5VA TO P2
12VA TO P2
+12V
+5V
IC708 TC7W00FU
IC710 CXA1779P RGB AMP
IC715 TC4W53FU R-SW
IC716 TC4W53FU G-SW
IC717 TC4W53FU B-SW
IC705 MC74HC4053F 05B-A0B
IC711 MC74HC4538AF GENE
IC704 TC74HC153F OUTPUT SYNC SELECTER
IC1514 TC74HC123AF
IC1515 TC74HC163AF
IC1508 MC74HC4053F
IC1525 TC74VHC74F PRESICALER
LPF
WB (Y IN)
TO P10 C.SYNC
TO P10 COMSV (B)
TO P10 FSC
CHROMA2 TO P10
BGP TO P10
GENCTL
MCLK TO P7
REF IN TO P7
TO P10 SSI
GEN-Y TO P10
TO P10 BACK/4
TO P10 BACK'
PAL/NT (OUT)
CSOUT
HSOUT
VSOUT
HSO
VSO
BACK
TP702
TP703
TP704
TP705
TP1501



A (1/10) (D/A ENCODER)

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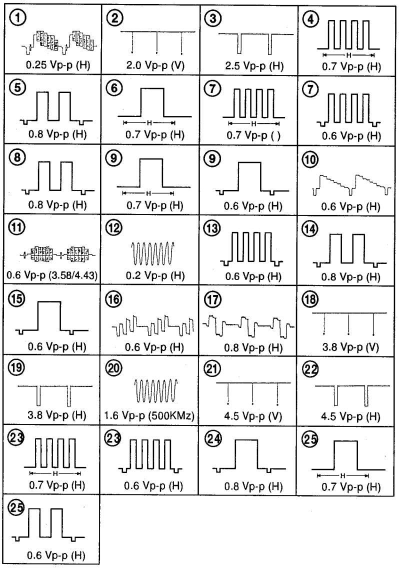
O
IC710 CXA1779P RGB AMP
IC711 MC74HC4538AF GENE
IC715 TC4W53FU R-SW
IC716 TC4W53FU G-SW
IC717 TC4W53FU B-SW
IC707 CXA1645M ENCODER
IC719 MM1041XM AMP
IC1515 TC74HC163AF
IC1508 MC74HC4053F
Q765 2SC2412K BUFF
Q766 2SC2412K R-DRIVER
Q767 2SC2412K R-DRIVER
Q768 2SC2412K BUFF
Q769 2SC2412K G-DRIVER
Q770 2SC2412K G-DRIVER
Q771 2SC2412K BUFF
Q772 2SC2412K B-DRIVER
Q773 2SC2412K B-DRIVER
Q1319 2SC2412K BUFF
Q1309 2SC2412K LPF
Q1307 2SC2412K ADD
Q1310 2SC2412K BUFF
Q1301 2SC2412K BUFF
Q1312 2SA1037AK AMP
Q1306 2SC2412K BUFF
Q1302 2SC2412K BUFF
Q1305 2SC2412K ADD
Q1303 2SC2412K BUFF
Q1304 2SC2412K ADD
Q1308 2SC2412K LPF
Q1311 2SC2412K BUFF
Q755 2SC2412K R-BUFF
Q754 2SC2412K G-BUFF
Q753 2SC2412K B-BUFF
Q759 2SA1037AK BUFF
Q1315 DTC144EKA MUTE-SW
Q760 2SA1037AK BUFF
Q1316 DTC144EKA MUTE-SW
Q761 2SA1037AK BUFF
Q1318 DTC144EKA MUTE-SW
Q1321 DTC144EKA MUTE-SW
Q1322 DTC144EKA MUTE-SW
Q1325 SW
Q1314 DTC144EKA SW
Q1313 DTC144EKA SW
Q1320 2SC2412K SW
DL1301 250NS
DL1302 250NS
WB (Y IN)
TRACON (Y IN)
R/R-Y
G/Y
B/B-Y
+12V
+5V
V.MUTE TO P7
RYVOUT TO P2
DTLD TOP1
TO P10 C.SYNC
TO P10 COMSV (B)
TO P10 FSC
CHROMA2 TO P10
REF IN TO P7
TO P10 SS1
GEN-Y TO P10
TO P10 BACK/4
CSOUT
BACK
TP1501
TP703
TP704
TP705
TP706
TP713
TP714
B-S53397<U/C>-A..P1

(2) A Board (I/O DECODER : 2/10)

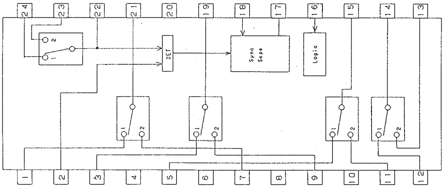
• A(2/10) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC300	1	2.7
	2	3.0
	3	2.1
	7	3.0
	8	5.0
IC301	1	2.7
	2	4.9
	3	2.1
	5	2.1
	6	3.5
	7	2.6
	8	5.0
IC302	1	0.1
	2	2.5
	3	3.2
	4	1.8
	5	1.9
	9	0
	10	0
	11	0
	12	3.0
	13	3.2
	14	3.0
	15	2.7
	16	5.0
IC303	1	2.1
	2	2.5
	3	2.1
	4	2.3
	5	2.3
	9	0
	10	0
	11	0
	12	2.2
	13	2.1
	14	2.2
	15	2.5
	16	5.0
IC304	2	0
	3	2.4
	4	2.6
	5	2.3
	6	2.8
	7	2.1
	8	4.8
	9	0
	10	4.8
	12	4.8
	13	4.8
	14	0.1
	15	0
	16	5.0
	17	0
	18	4.8
	19	4.8
IC305	1	5.0
	5	0.3
	9	5.0
	11	2.9
	12	2.9
	14	1.4
	15	0
	16	0
IC306	1	2.5
	5	4.8
	6	2.5
	7	2.9
	8	5.0
IC307	1	2.3
	5	4.8
	6	2.3
	7	2.9
	8	5.0
IC314	1	4.5
	2	0
	4	0
	6	0
	7	0
	9	4.4
	10	4.4
	12	0
	14	4.4
	16	5.0
IC317	1	0
	2	4.9
	3	2.6
	4	0
	5	0
	9	4.8
	10	4.8
	11	3.1
	12	0
	13	3.1
	14	0
	15	4.0
	16	5.0
IC318	1	4.0
	2	0.4
	3	4.7
	4	0.2
	6	5.0
	8	5.0
	10	5.0
	12	5.0
	14	5.0
IC319	1	3.6
	2	0.1
	3	3.6
	5	3.6
	7	0
	9	0
	11	0
	14	0
	15	2.1
	16	4.6
	17	0
	18	2.5
	19	2.1
	20	5.0
	21	2.8
	22	0
IC321	1	3.7
	2	3.7
	3	2.7
	4	3.1
	6	4.8
	7	5.0
	8	4.3
	9	3.7
	10	4.0
	11	4.2
	12	2.2
	13	2.5
	14	2.3
	16	1.9
	17	5.0
	18	0
	19	2.5
	20	2.0
	21	2.0
	22	0.2
	23	2.0
	24	2.0
	25	2.0
	26	0.3
	27	3.0
	28	2.8
	29	1.7
	30	2.1
	31	2.6
	32	0.1
	34	1.4
	35	5.0
	36	2.3
	37	2.2
	38	2.2
	39	2.6
	40	0
	41	4.8
	42	4.8
IC712	IN	12.7
	OUT	12.0
IC713	IN	6.2
	OUT	5.0
IC714	IN	6.2
	OUT	5.0
Q301	B	0
	C	12.0
	E	0
Q302	B	0
	C	12.0
	E	0
Q303	B	0
	C	12.0
	E	0
Q304	B	4.6
	C	0
	E	0
Q305	B	4.5
	C	0
	E	0
Q307	B	1.8
	C	0
	E	0.7
Q310	B	1.9
	C	5.0
	E	1.2
Q311	B	1.4
	C	0
	E	2.0
Q313	B	2.0
	C	5.0
	E	1.4
Q314	B	2.0
	C	5.0
	E	1.4
Q315	B	2.8
	C	5.0
	E	2.5
Q316	B	2.8
	C	5.0
	E	2.7
Q317	B	2.8
	C	5.0
	E	2.5
Q318	B	2.0
	C	5.0
	E	1.4
Q320	B	2.5
	C	5.0
	E	1.8
Q321	B	2.7
	C	5.0
	E	2.0
Q322	B	2.5
	C	5.0
	E	1.9
Q351	B	0
	C	0
	E	2.5
Q352	B	3.0
	C	5.0
	E	2.4
Q353	B	1.2
	C	0
	E	1.8

• A(2/10) BOARD WAVEFORMS



• A(2/10) BOARD
IC319 BA7657F



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Sync Sepa
Logic
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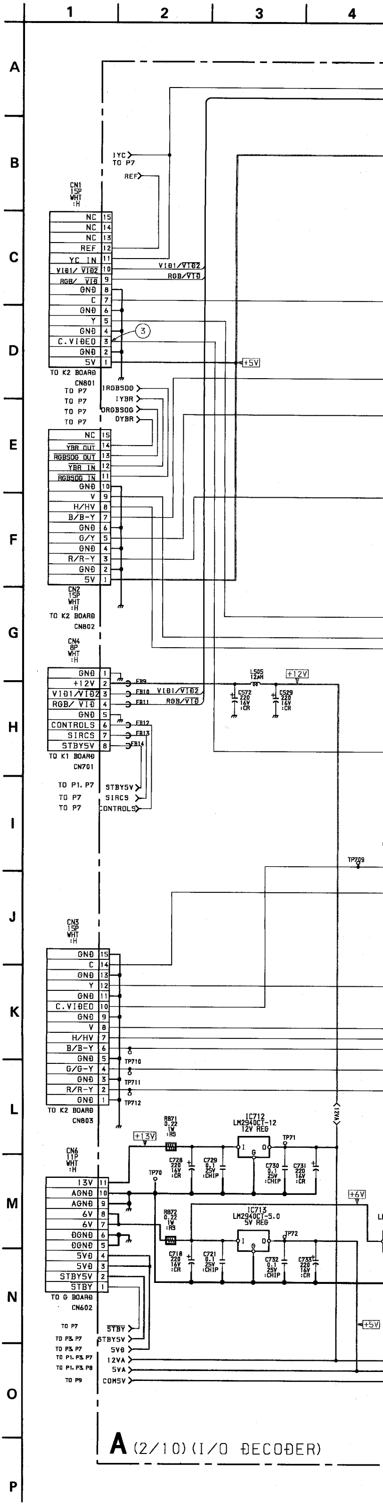

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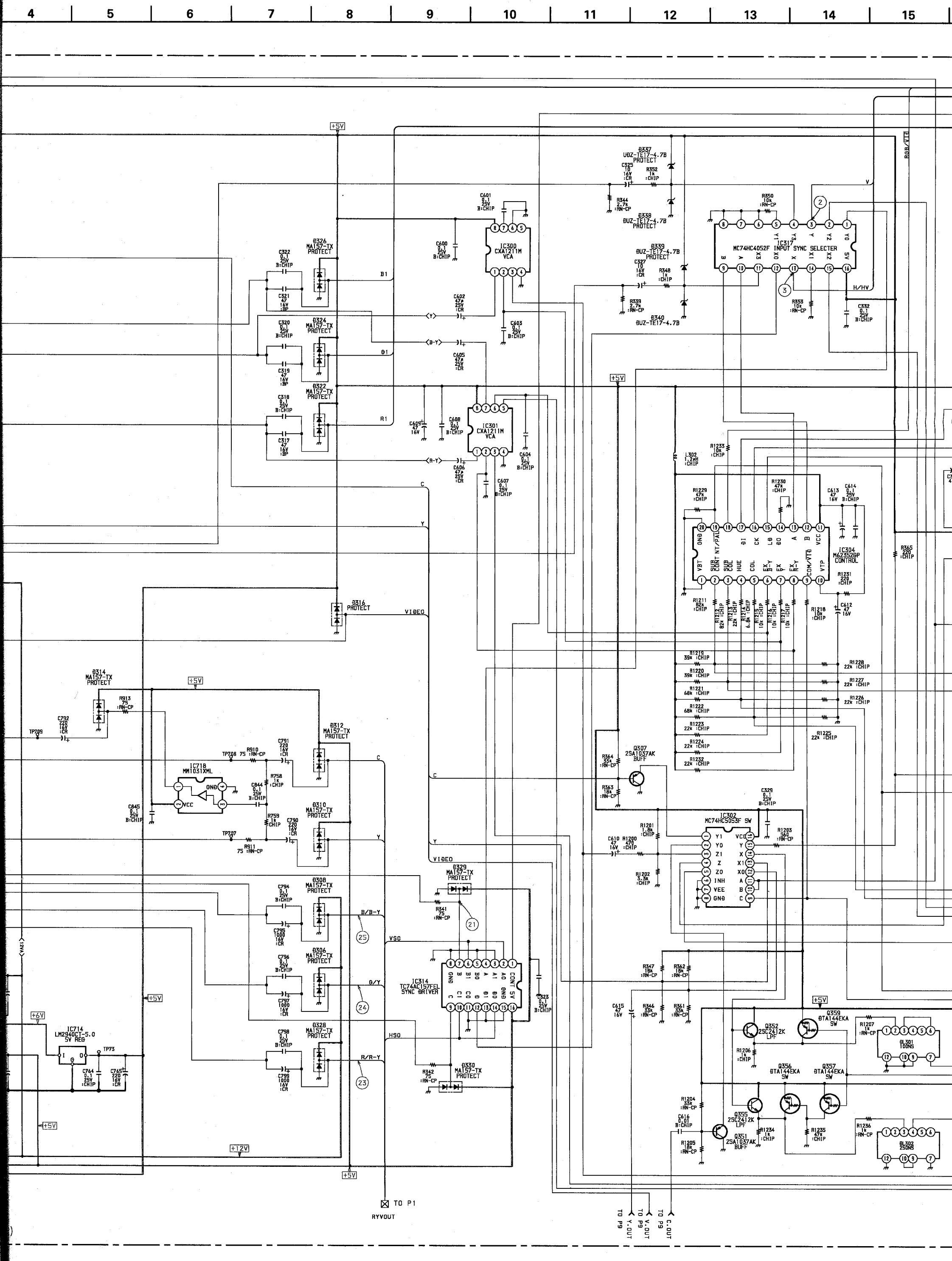
P
IYC
TO P7
REF
CN1
15P
WHT
:H
NC 15
NC 14
NC 13
REF 12
YC IN 11
VID1/VID2 10
RGB/VID 9
GND 8
C 7
GND 6
Y 5
GND 4
C.VIDEO 3
GND 2
5V 1
TO K2 BOARD
CN801
③
VID1/VID2
RGB/VID
+5V
TO P7
TO P7
TO P7
TO P7
IRGBSOG
IYBR
ORGBSOG
OYBR
NC 15
YBR OUT 14
RGBSOG OUT 13
YBR IN 12
RGBSOG IN 11
GND 10
V 9
H/HV 8
B/B-Y 7
GND 6
G/Y 5
GND 4
R/R-Y 3
GND 2
5V 1
CN2
15P
WHT
:H
TO K2 BOARD
CN802
CN4
8P
WHT
:H
GND 1
+12V 2
VID1/VID2 3
RGB/VID 4
GND 5
CONTROLS 6
SIRCS 7
STBY5V 8
TO K1 BOARD
CN701
FB9
FB10
FB11
FB12
FB13
FB14
VID1/VID2
RGB/VID
L505
12μH
+12V
C572
220
16V
:CR
C529
220
16V
:CR
TO P1. P7
TO P7
TO P7
STBY5V
SIRCS
CONTROLS
TP709
CN3
15P
WHT
:H
GND 15
C 14
GND 13
Y 12
GND 11
C.VIDEO 10
GND 9
V 8
H/HV 7
B/B-Y 6
GND 5
G/G-Y 4
GND 3
R/R-Y 2
GND 1
TP710
TP711
TP712
TO K2 BOARD
CN803
12VA
R871
0.22
1W
:RS
+13V
IC712
LM2940CT-12
12V REG
I
G
O
TP71
TP70
C728
220
16V
:CR
C729
0.1
25V
:CHIP
C730
0.1
25V
:CHIP
C731
220
16V
:CR
CN6
11P
WHT
:H
13V 11
AGND 10
AGND 9
6V 8
6V 7
DGND 6
DGND 5
5VD 4
5VD 3
STBY5V 2
STBY 1
TO G BOARD
CN602
+6V
R872
0.22
1W
:RS
IC713
LM2940CT-5.0
5V REG
TP72
C718
220
16V
:CR
C721
0.1
25V
:CHIP
C732
0.1
25V
:CHIP
C733
220
16V
:CR
+5V
TO P7
TO P3. P7
TO P3. P7
TO P1. P3. P7
TO P1. P3. P8
TO P9
STBY
STBY5V
5VD
12VA
5VA
COM5V
A (2/10) (I/O DECODER)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+5V
D337 UDZ-TE17-4.7B PROTECT
D338 UDZ-TE17-4.7B PROTECT
D339 UDZ-TE17-4.7B PROTECT
D340 UDZ-TE17-4.7B
IC317 MC74HC4052F INPUT SYNC SELECTER
IC300 CXA1211M VCA
IC301 CXA1211M VCA
D326 MA157-TX PROTECT
D324 MA157-TX PROTECT
D322 MA157-TX PROTECT
D316 PROTECT
D314 MA157-TX PROTECT
D312 MA157-TX PROTECT
D310 MA157-TX PROTECT
D308 MA157-TX PROTECT
D306 MA157-TX PROTECT
D328 MA157-TX PROTECT
D329 MA157-TX PROTECT
D330 MA157-TX PROTECT
IC718 MM1031XML
IC714 LM2940CT-5.0 5V REG
IC314 TC74AC157FEL SYNC DRIVER
IC304 M62352GP CONTROL
IC302 MC74HC5053F SW
Q307 2SA1037AK BUFF
Q352 2SC2412K LPF
Q359 DTA144EKA SW
Q356 DTA144EKA SW
Q357 DTA144EKA SW
Q355 2SC2412K LPF
Q351 2SA1037AK BUFF
DL301 100NS
DL302 250NS
B1
G1
R1
C
Y
VIDEO
B/B-Y
G/Y
R/R-Y
VSO
HSO
H/HV
V
RGB/VTR
<Y>
<B-Y>
<R-Y>
+6V
+12V
TP709
TP708
TP707
TP73
TO P1
RYVOUT
TO P9 Y.OUT
TO P9 V.OUT
TO P9 C.OUT
21
23
24
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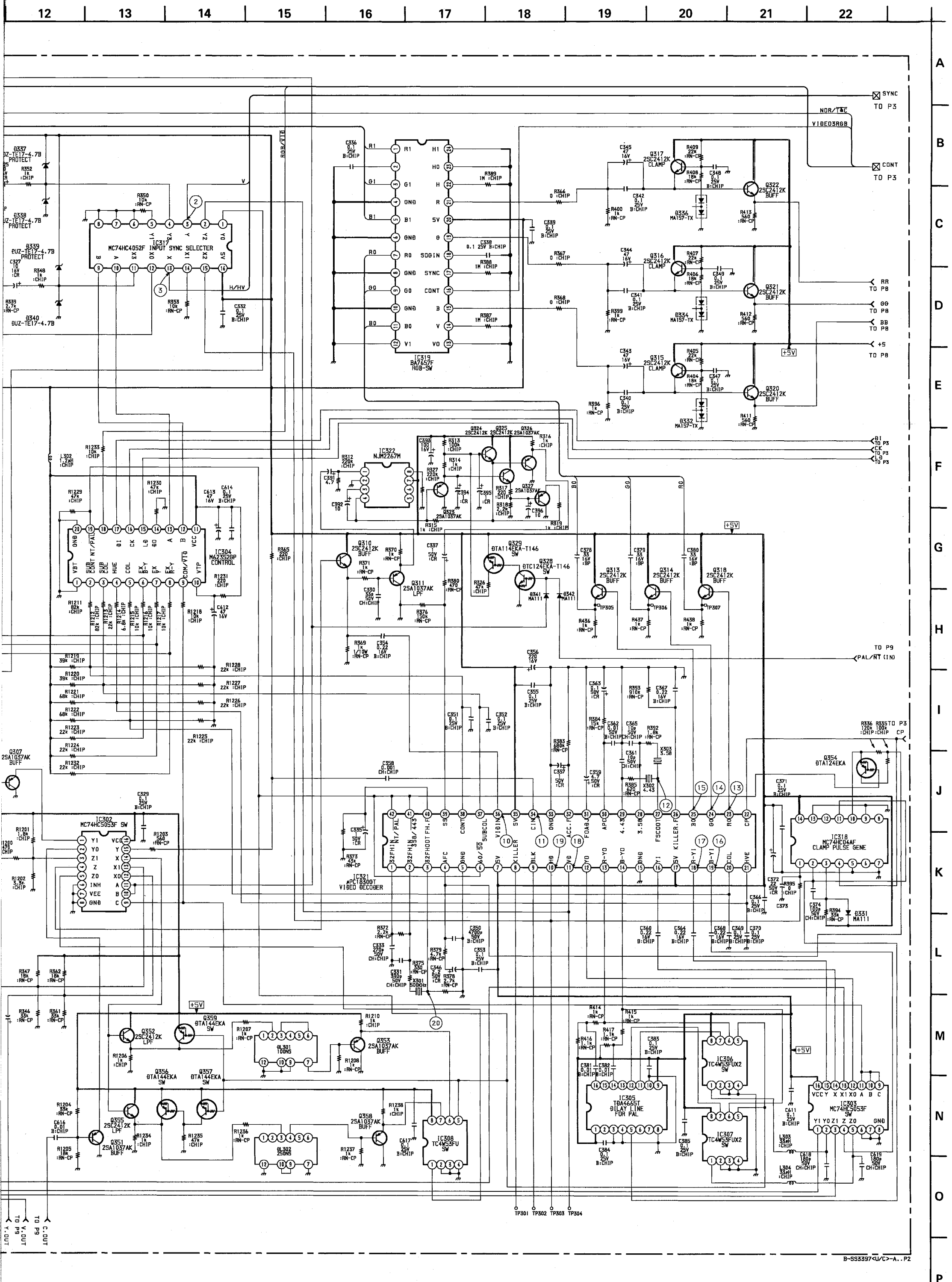
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A
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G
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K
L
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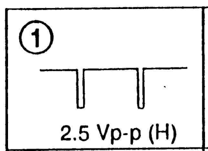
N
O
P
SYNC TO P3
NOR/T&C
VIDEO3RGB
CONT TO P3
RR TO P8
GG TO P8
BB TO P8
+5 TO P8
+5V
BI TO P3
CK TO P3
L0 TO P3
TO P9 PAL/NT (IN)
R336 120k R335 100k :CHIP :CHIP
TO P3 CP
IC317 MC74HC4052F INPUT SYNC SELECTER
IC319 BA7657F RGB-SW
Q317 2SC2412K CLAMP
Q316 2SC2412K CLAMP
Q315 2SC2412K CLAMP
Q322 2SC2412K BUFF
Q321 2SC2412K BUFF
Q320 2SC2412K BUFF
D336 MA157-TX
D334 MA157-TX
D332 MA157-TX
IC322 NJM2267M
Q324 2SC2412K
Q325 2SC2412K
Q326 2SA1037AK
Q327 2SA1037AK
Q323 2SA1037AK
IC304 M62352GP CONTROL
Q310 2SC2412K BUFF
Q311 2SA1037AK LPF
Q329 DTA114EKA-T146
Q328 DTC124EKA-T146 SW
D341 MA111
D342 MA111
Q313 2SC2412K BUFF
Q314 2SC2412K BUFF
Q318 2SC2412K BUFF
TP305
TP306
TP307
Q354 DTA124EKA
IC318 MC74HC04AF CLAMP PULSE GENE
D331 MA111
IC321 μPC1830GT VIDEO DECODER
X303 3.58
X302 4.43
X301 500KHz
IC302 MC74HC5053F SW
Q307 2SA1037AK BUFF
D337 UZ-TE17-4.7B PROTECT
D338 UZ-TE17-4.7B PROTECT
D339 UZ-TE17-4.7B PROTECT
D340 UZ-TE17-4.7B
Q352 2SC2412K LPF
Q359 DTA144EKA SW
Q353 2SA1037AK BUFF
DL301 100NS
Q356 DTA144EKA SW
Q357 DTA144EKA SW
Q355 2SC2412K LPF
Q351 2SA1037AK BUFF
Q358 2SA1037AK BUFF
DL302 250NS
IC308 TC4W53FU SW
IC305 TDA4665T DELAY LINE FOR PAL
IC306 TC4W53FUX2 SW
IC307 TC4W53FUX2 SW
IC303 MC74HC5053F SW
TP301
TP302
TP303
TP304
TO P9 V.OUT
TO P9 V.OUT
TO P9 C.OUT
B-SS3397<U/C>-A..P2

(4) A Board (A/D : 3/10)

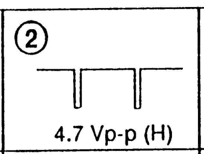
• A(3/10) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC502	2	4.6
	3	0
	4	0
	5	0
	6	4.6
	7	0
	8	4.6
	9	3.9
	10	4.6
	11	5.0
	12	3.3
	13	3.1
	14	0.1
	15	0
	16	5.0
	17	5.0
	18	4.6
	19	4.6
IC503	1	5.1
	2	5.1
	3	4.6
	4	4.5
	6	6.2
	7	0.8
	8	6.3
	9	3.5
	10	2.4
	11	0.7
	13	0.1
	14	0.6
	15	4.3
	16	12.0
	17	0.2
	18	5.1
	19	5.1
	20	3.5
IC504	1	0
	2	0
	3	0
	5	0.1
	6	0.8
	7	0.6
	8	4.9
IC505	1	12.0
	2	3.2
	3	3.3
	5	3.3
	6	4.0
	8	3.2
	9	3.1
	11	5.0
	12	3.9
	14	0.1
	16	0
	18	8.1
	19	11.9
	20	4.0
	22	8.2
	23	11.9
	24	4.5
	26	8.2
	27	11.9
	28	4.0
IC506	1	2.5
	2	0
	3	4.6
IC507	1	0
	2	0
	3	4.9
	4	4.9
	5	3.0
	6	3.0
	14	4.9
IC508	1	0.2
	2	4.8
	3	0.2
	4	4.8
	5	0.1
	6	4.9
	8	4.9
	9	0
	10	4.9
	11	0
	12	0.1
	13	4.8
	14	4.9
IC509	1	2.5
	3	2.5
IC510	1	2.5
	3	3.9
IC511	1	1.6
	2	0.7
	3	0.3
	4	0.2
	5	0.2
	6	1.8
	7	1.9
	8	1.9
	10	0
	11	4.9
	12	1.8
	15	4.9
	16	4.9
	17	3.9
	18	3.9
	19	4.9
	20	4.9
	21	3.0
	24	2.5
	25	2.5
	26	0
	27	2.5
IC512	1	2.5
	2	1.7
	3	0.5
	4	1.9
	5	1.9
	6	0
	7	1.9
	8	0
	10	4.9
	11	4.9
	12	1.9
	15	4.9
	16	4.9
	17	3.9
	18	3.9
	19	4.9
	20	4.9
	21	3.0
	24	2.5
	25	2.5
	26	0
	27	2.5
IC513	1	3.4
	2	3.7
	3	3.7
	4	2.5
	5	2.0
	6	4.3
	7	4.3
	8	1.9
	10	4.9
	11	4.9
	12	1.8
	15	4.9
	16	4.9
	17	3.9
	18	3.9
	19	4.9
	20	4.9
	21	3.5
	24	2.5
	25	2.5
	26	0
	27	2.7
IC514	1	2.6
	2	1.6
	3	0.9
	4	0.3
	5	0.2
	9	0.2
	10	1.8
	11	1.9
	12	1.9
	13	2.3
	14	4.9
IC515	1	3.6
	2	2.3
	3	1.5
	4	0.7
	5	1.9
	9	1.9
	10	0
	11	1.9
	12	1.9
	13	1.3
	14	4.9
IC516	1	4.7
	2	3.3
	3	3.0
	4	2.9
	5	3.2
	9	2.0
	10	4.3
	11	4.3
	12	1.9
	13	0.2
	14	4.9
IC517	5	2.5
	7	2.7
	9	2.5
	11	2.3
	13	0.4
	15	1.2
	19	4.8
	20	4.9
IC518	1	1.6
	2	0.7
	3	0.3
	4	0.2
	5	0.2
	6	1.8
	8	4.9
	11	1.9
	12	1.9
	14	4.9
IC519	1	2.5
	2	1.7
	3	0.6
	4	1.9
	5	1.9
	6	0
	8	4.9
	11	1.9
	12	1.9
	14	4.9
IC520	1	3.4
	2	3.6
	3	3.6
	4	2.6
	5	2.0
	6	4.3
	8	3.0
	11	4.3
	12	1.9
	14	4.9
IC521	1	4.8
	5	0
	6	4.8
	7	4.8
	8	4.9
IC522	3	4.9
	4	0.9
	5	4.3
	6	0.6
	12	0.8
	14	3.5
	15	0
	16	4.9
Q612	B	4.5
	C	4.9
	E	3.9
Q613	B	4.0
	C	4.9
	E	3.3
Q614	B	4.0
	C	4.9
	E	3.3
Q615	B	2.8
	C	1.9
	E	3.5

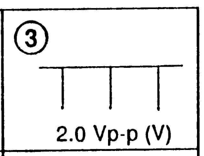
• A(3/10) BOARD WAVEFORMS



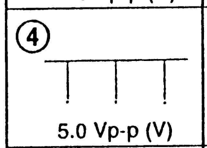
2.5 Vp-p (H)



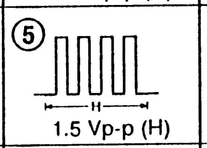
4.7 Vp-p (H)



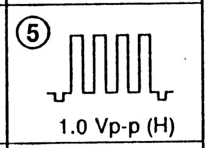
2.0 Vp-p (V)



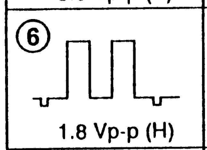
5.0 Vp-p (V)



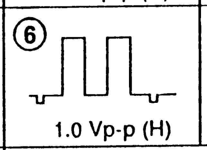
1.5 Vp-p (H)



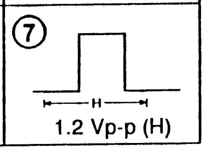
1.0 Vp-p (H)



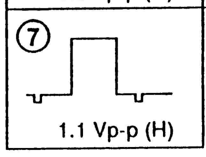
1.8 Vp-p (H)



1.0 Vp-p (H)



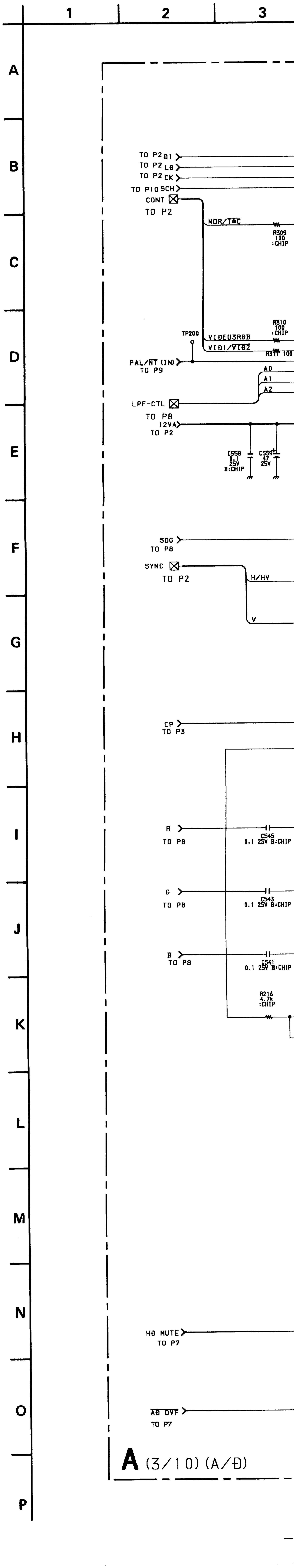
1.2 Vp-p (H)

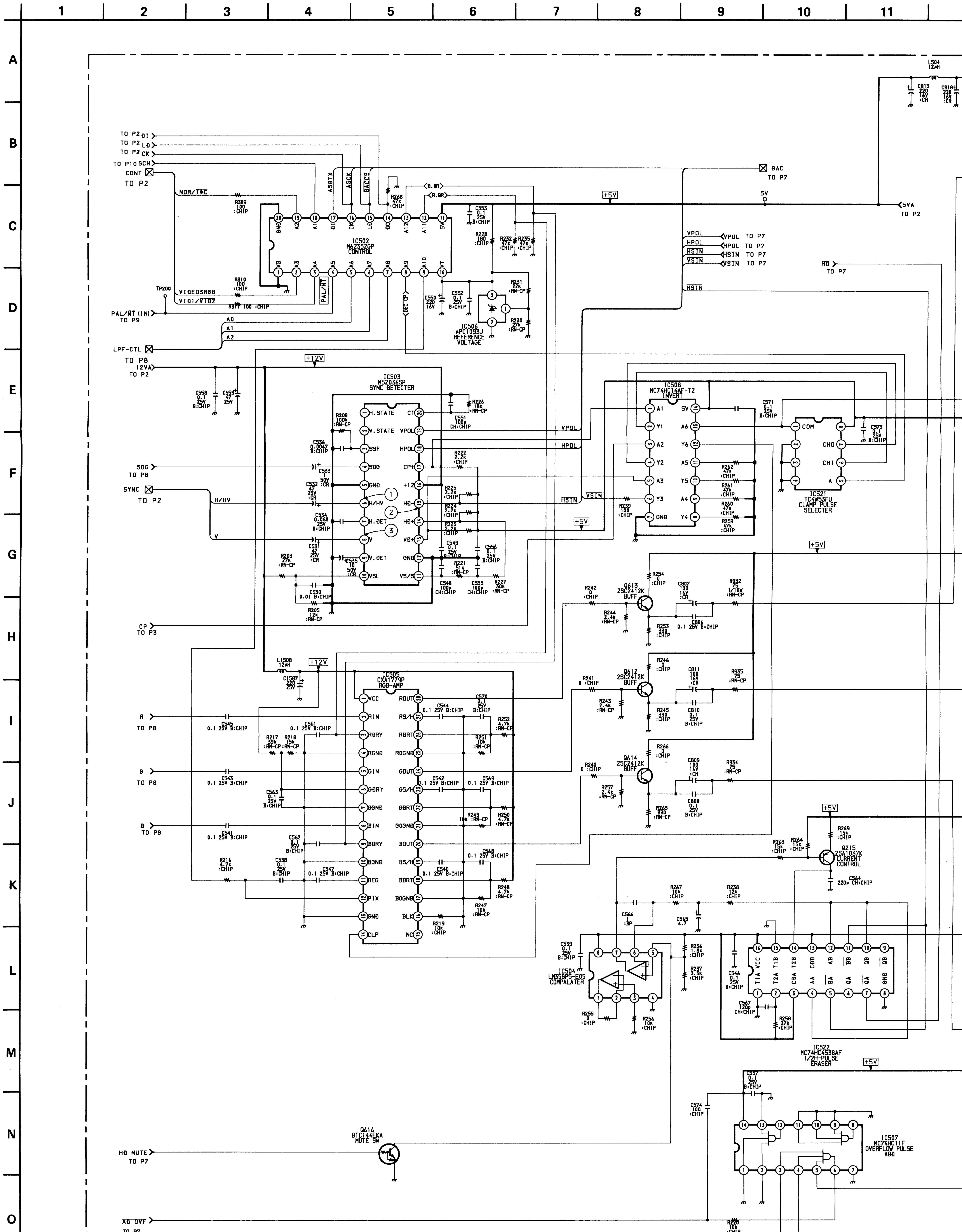


1.1 Vp-p (H)

Schematic diagram
← A (2/10) board

Schematic diagram
A (3/10) board →


1
2
3
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
TO P2 DI
TO P2 LD
TO P2 CK
TO P10 SCH
CONT
TO P2
NOR/T&C
R309 100 :CHIP
R310 100 :CHIP
TP200
VIDEO3RGB
VID1/VID2
R311 100
PAL/NT (IN)
TO P9
A0
A1
A2
LPF-CTL
TO P8
12VA
TO P2
C558 0.1 25V B:CHIP
C559 47 25V
SOG
TO P8
SYNC
TO P2
H/HV
V
CP
TO P3
R
TO P8
C545 0.1 25V B:CHIP
G
TO P8
C543 0.1 25V B:CHIP
B
TO P8
C541 0.1 25V B:CHIP
R216 4.7k :CHIP
HD MUTE
TO P7
AD OVF
TO P7
A (3/10) (A/D)



1
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11
A
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C
D
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G
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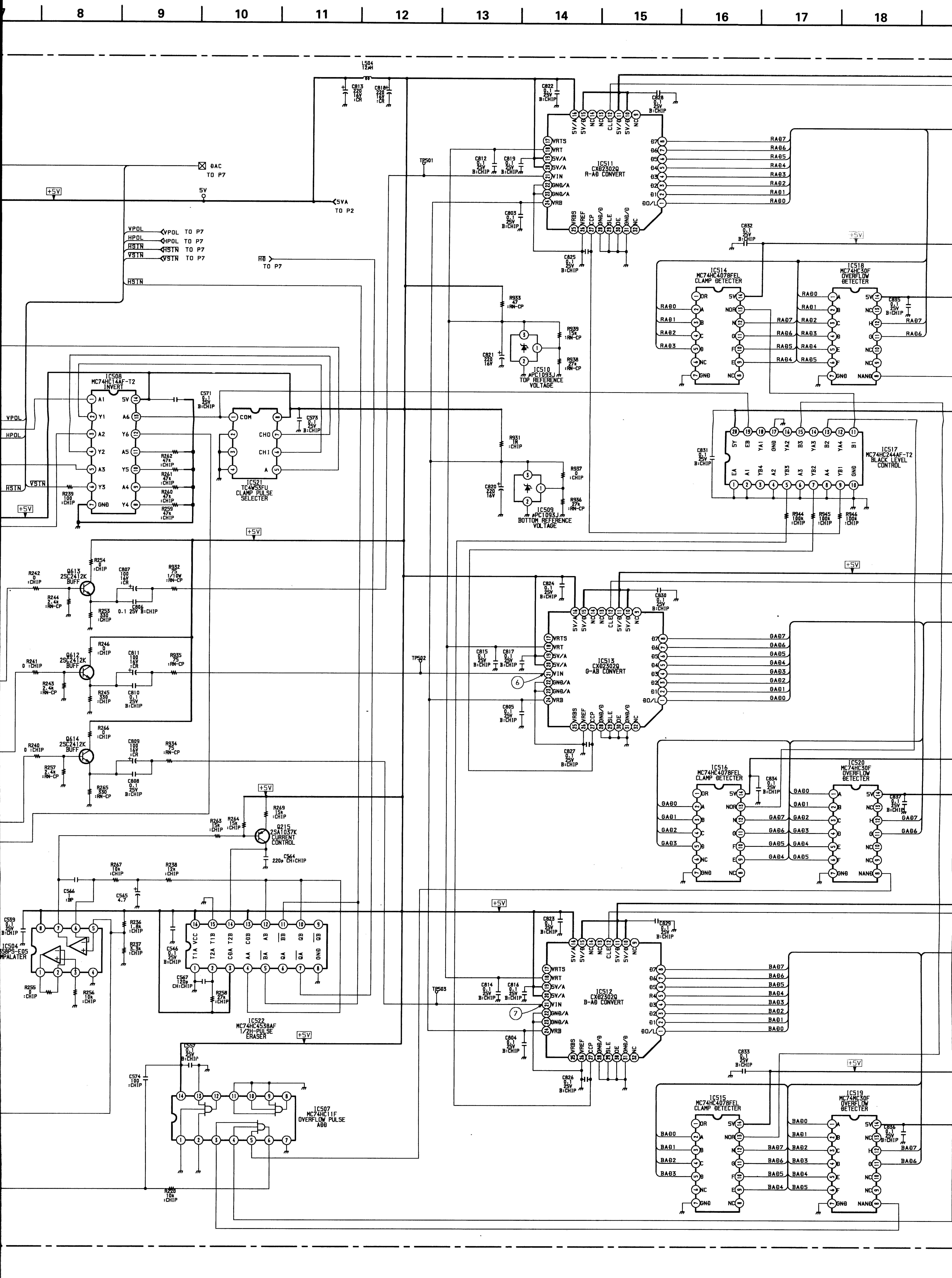
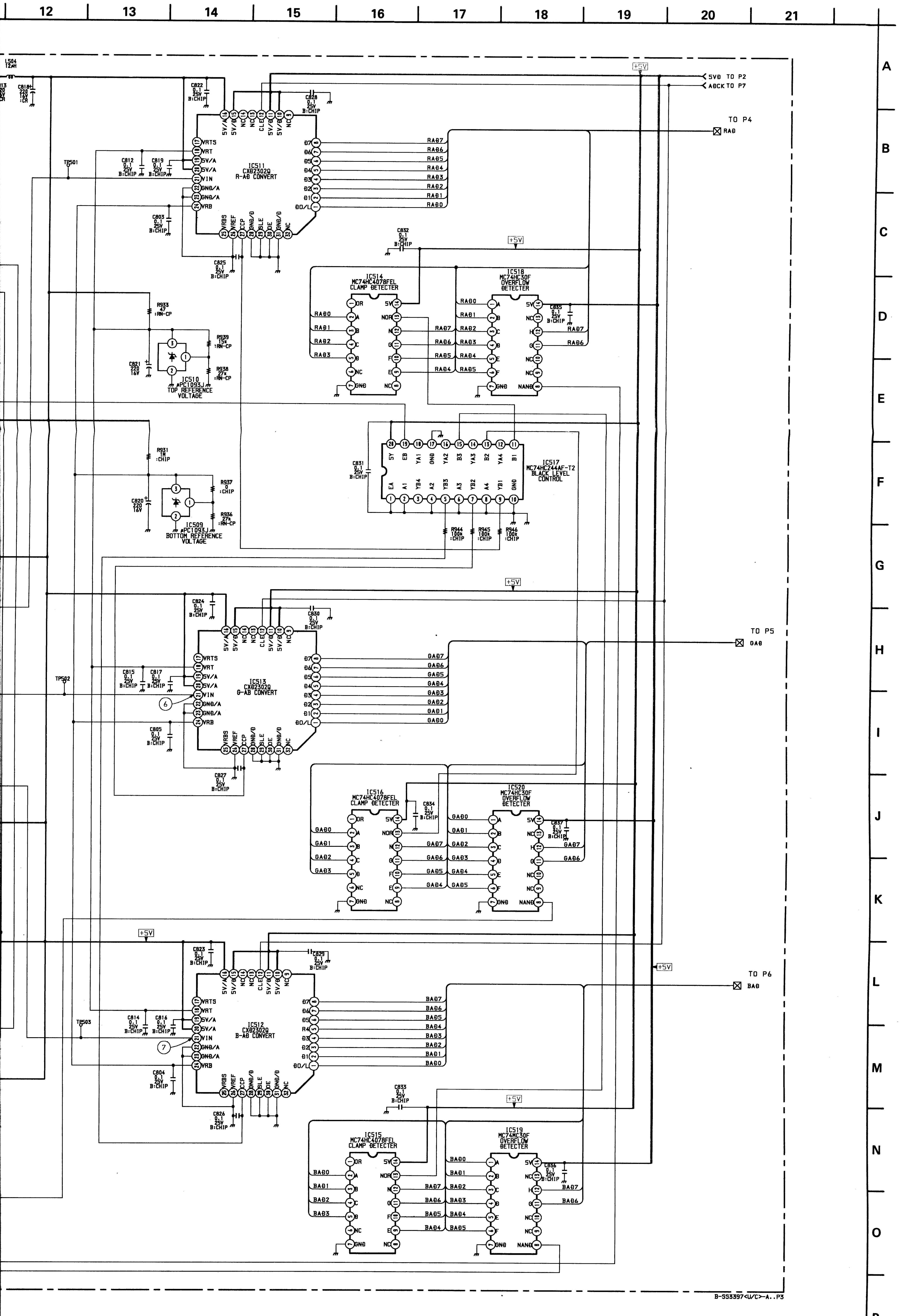
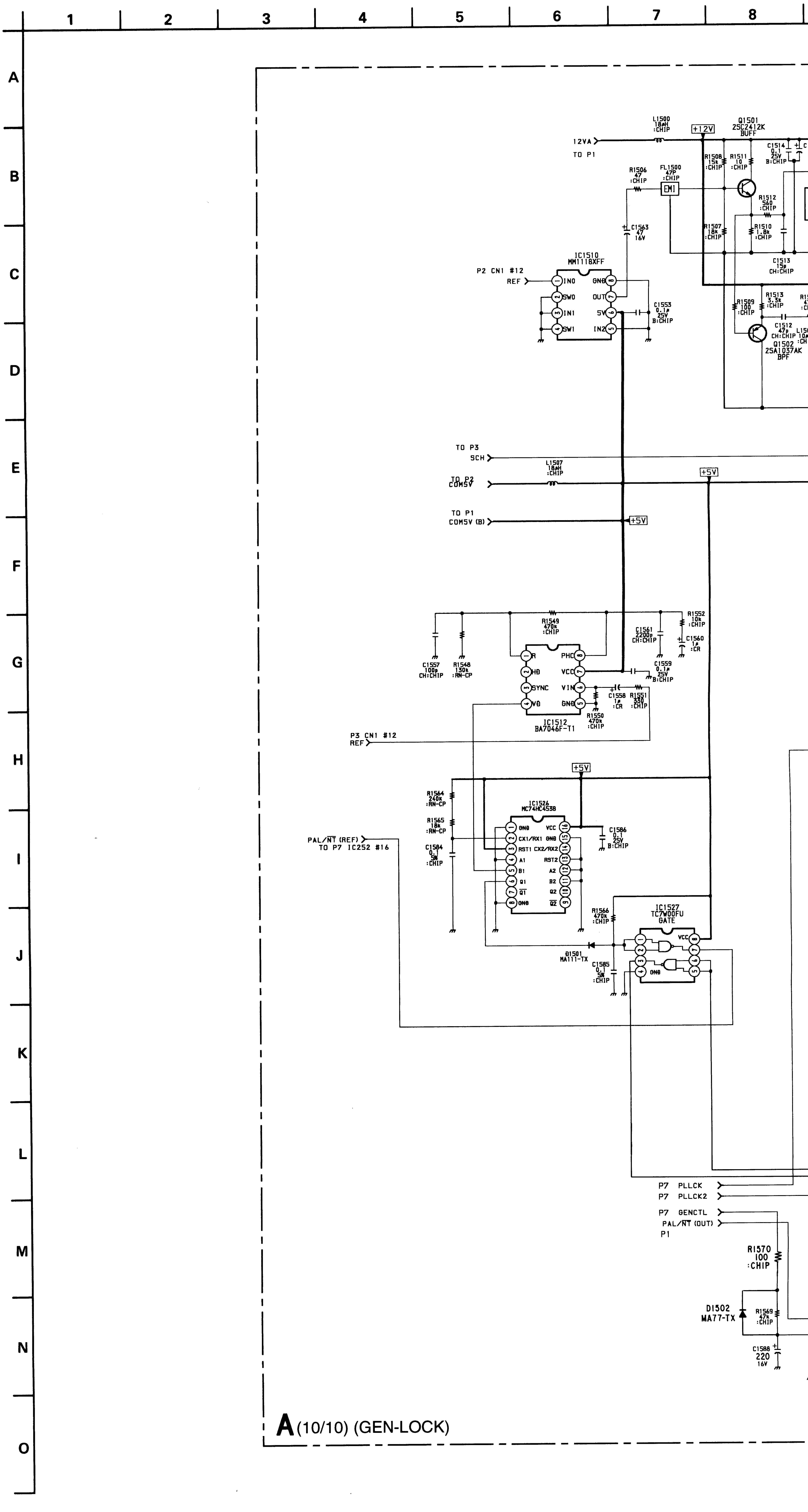
J
K
L
M
N
O
P
TO P2 ĐI
TO P2 LĐ
TO P2 CK
TO P10 SCH
CONT
TO P2
NOR/T&C
R309 100 :CHIP
ASĐTX
ASCK
ĐACCS
R268 47k :CHIP
(B.ĐR)
(R.ĐR)
C553 0.1 25V B:CHIP
+5V
ĐAC TO P7
5V
5VA TO P2
L504 12μH
C813 220 16V :CR
C818 220 16V :CR
IC502 M62352ΩP CONTROL
R228 180 :CHIP
R232 47k :CHIP
R235 47k :CHIP
VPOL TO P7
HPOL TO P7
HSIN TO P7
VSIN TO P7
HĐ TO P7
TP200
R310 100 :CHIP
VIĐEO3RGB
VIĐ1/VIĐ2
R311 100 :CHIP
PAL/NT
PAL/NT (IN) TO P9
A0
A1
A2
ĐEC CP
C550 220 16V
C552 0.1 25V B:CHIP
R231 22k :RN-CP
R230 27k :RN-CP
IC506 μPC1093J REFERENCE VOLTAGE
LPF-CTL
TO P8
12VA TO P2
+12V
IC503 M52036SP SYNC ĐETECTER
C558 0.1 25V B:CHIP
C559 47 25V
R226 18k :RN-CP
C551 100p CH:CHIP
R208 100k :RN-CP
C536 0.0047 B:CHIP
H.STATE
V.STATE
SSF
SOG
GND
H/HV
H.ĐET
V
V.ĐET
VSL
CT
VPOL
HPOL
CP
+12
HĐ
VĐ
VS/S
SOG TO P8
SYNC TO P2
C533 1 50V :CR
C532 47 25V :CR
H/HV
C534 0.068 25V B:CHIP
C531 47 25V :CR
C535 10 50V :CR
R203 27k :RN-CP
C530 0.01 B:CHIP
R205 12k :RN-CP
R222 2.2k :CHIP
R225 2.2k :CHIP
R224 2.2k :CHIP
R223 2.2k :CHIP
C549 0.1 25V B:CHIP
C556 0.1 25V B:CHIP
R221 51k :RN-CP
C548 100p CH:CHIP
C555 100p CH:CHIP
R227 30k :RN-CP
CP TO P3
IC508 MC74HC14AF-T2 INVERT
A1 Y1 A2 Y2 A3 Y3 GND
5V A6 Y6 A5 Y5 A4 Y4
R262 47k :CHIP
R261 47k :CHIP
R260 47k :CHIP
R259 47k :CHIP
R239 100 :CHIP
C571 0.1 25V B:CHIP
IC521 TC4W53FU CLAMP PULSE SELECTER
COM CHO CHI A
C573 0.1 25V B:CHIP
Q613 2SC2412K BUFF
R242 0 :CHIP
R244 2.4k :RN-CP
R254 0 :CHIP
C807 100 16V :CR
C806 0.1 25V B:CHIP
R253 330 :CHIP
R932 75 1/10W :RN-CP
Q612 2SC2412K BUFF
R241 0 :CHIP
R243 2.4k :RN-CP
R246 0 :CHIP
C811 100 16V :CR
C810 0.1 25V B:CHIP
R245 330 :CHIP
R935 75 :RN-CP
Q614 2SC2412K BUFF
R240 0 :CHIP
R257 2.4k :RN-CP
R266 0 :CHIP
C809 100 16V :CR
C808 0.1 25V B:CHIP
R265 330 :RN-CP
R934 75 :RN-CP
L1508 12μH
C1587 220 25V
IC505 CXA1779P RGB-AMP
VCC RIN RBRY RGND GIN GBRY GGND BIN BBRY BGND REG PIX GND CLP
ROUT RS/H RBRT RGGND GOUT GS/H GBRT GOGND BOUT BS/H BBRT BOGND BLK NC
R TO P8
G TO P8
B TO P8
C545 0.1 25V B:CHIP
C561 0.1 25V B:CHIP
R217 39k :RN-CP
R218 15k :RN-CP
C543 0.1 25V B:CHIP
C563 0.1 25V B:CHIP
C541 0.1 25V B:CHIP
C562 0.1 25V B:CHIP
R216 4.7k :CHIP
C538 0.1 25V B:CHIP
C547 0.1 25V B:CHIP
C544 0.1 25V B:CHIP
C570 0.1 25V B:CHIP
R252 4.7k :RN-CP
R251 10k :RN-CP
C542 0.1 25V B:CHIP
C569 0.1 25V B:CHIP
R249 10k :RN-CP
R250 4.7k :RN-CP
C568 0.1 25V B:CHIP
C540 0.1 25V B:CHIP
R248 4.7k :RN-CP
R247 10k :RN-CP
R219 10k :CHIP
Q215 2SA1037K CURRENT CONTROL
R269 15k :CHIP
R263 15k :CHIP
R264 15k :CHIP
C564 220p CH:CHIP
R267 10k :CHIP
R238 12k :CHIP
C566 1 :BP
C565 4.7
C539 0.1 25V B:CHIP
IC504 LM358PS-E05 COMPALATER
R236 1.8k :CHIP
R237 3.3k :CHIP
R255 0 :CHIP
R256 10k :CHIP
T1A VCC T1B T2A T2B CDA CDB AA AB BA BB QA QB GND
C546 0.1 25V B:CHIP
C567 120p CH:CHIP
R258 27k :CHIP
IC522 MC74HC4538AF 1/2H-PULSE ERASER
C557 0.1 25V B:CHIP
C574 100 :CHIP
IC507 MC74HC11F OVERFLOW PULSE AĐĐ
Q616 DTC144EKA MUTE SW
HĐ MUTE TO P7
AĐ OVF TO P7
R220 10k :CHIP

A (3/10) (A/Đ)


8
9
10
11
12
13
14
15
16
17
18
L504 12μH
C813 220 16V :CR
C818 220 16V :CR
C822 0.1 25V B:CHIP
C828 0.1 25V B:CHIP
IC511 CX20202Q R-A0 CONVERT
RA07
RA06
RA05
RA04
RA03
RA02
RA01
RA00
TP501
C812 0.1 25V B:CHIP
C819 0.1 25V B:CHIP
C803 0.1 25V B:CHIP
C825 0.1 25V B:CHIP
BAC TO P7
+5V
5V
5VA TO P2
VPOL TO P7
HPOL TO P7
HSTN TO P7
VSTN TO P7
HD TO P7
HSTN
C832 0.1 25V B:CHIP
+5V
IC514 MC74HC4078FEL CLAMP DETECTER
IC518 MC74HC30F OVERFLOW DETECTER
C835 0.1 25V B:CHIP
R933 47 :RN-CP
R939 15k :RN-CP
R938 27k :RN-CP
C821 220 16V
IC510 μPC1093J TOP REFERENCE VOLTAGE
IC508 MC74HC14AF-T2 INVERT
C571 0.1 25V B:CHIP
IC521 TC4W53FU CLAMP PULSE SELECTER
C573 0.1 25V B:CHIP
VPOL
HPOL
HSTN
VSTN
+5V
R239 100 :CHIP
R262 47k :CHIP
R261 47k :CHIP
R260 47k :CHIP
R259 47k :CHIP
R931 1M :CHIP
C820 220 16V
R937 0 :CHIP
R936 27k :RN-CP
IC509 μPC1093J BOTTOM REFERENCE VOLTAGE
C831 0.1 25V B:CHIP
IC517 MC74HC244AF-T2 BLACK LEVEL CONTROL
R944 100k :CHIP
R945 100k :CHIP
R946 100k :CHIP
+5V
R242 0 :CHIP
Q613 2SC2412K BUFF
R254 0 :CHIP
C807 100 16V :CR
R932 75 1/10W :RN-CP
R244 2.4k :RN-CP
R253 330 :CHIP
C806 0.1 25V B:CHIP
C824 0.1 25V B:CHIP
C830 0.1 25V B:CHIP
IC513 CX20202Q G-A0 CONVERT
GA07
GA06
GA05
GA04
GA03
GA02
GA01
GA00
TP502
C815 0.1 25V B:CHIP
C817 0.1 25V B:CHIP
C805 0.1 25V B:CHIP
C827 0.1 25V B:CHIP
6
R241 0 :CHIP
Q612 2SC2412K BUFF
R246 0 :CHIP
C811 100 16V :CR
R935 75 :RN-CP
R243 2.4k :RN-CP
R245 330 :CHIP
C810 0.1 25V B:CHIP
R240 0 :CHIP
Q614 2SC2412K BUFF
R266 0 :CHIP
C809 100 16V :CR
R934 75 :RN-CP
R257 2.4k :RN-CP
R265 330 :RN-CP
C808 0.1 25V B:CHIP
IC516 MC74HC4078FEL CLAMP DETECTER
C834 0.1 25V B:CHIP
IC520 MC74HC30F OVERFLOW DETECTER
C837 0.1 25V B:CHIP
+5V
R269 15k :CHIP
R263 15k :CHIP
R264 15k :CHIP
Q215 2SA1037K CURRENT CONTROL
C564 220p CH:CHIP
R267 10k :CHIP
R238 12k :CHIP
C566 1 :BP
C565 4.7
C539 0.1 25V B:CHIP
IC504 358PS-E05 COMPALATER
R236 1.8k :CHIP
R237 3.3k :CHIP
C546 0.1 25V B:CHIP
C567 120p CH:CHIP
R258 27k :CHIP
R255 0 :CHIP
R256 10k :CHIP
IC522 MC74HC4538AF 1/2H-PULSE ERASER
+5V
C823 0.1 25V B:CHIP
C829 0.1 25V B:CHIP
IC512 CX20202Q B-A0 CONVERT
BA07
BA06
BA05
BA04
BA03
BA02
BA01
BA00
TP503
C814 0.1 25V B:CHIP
C816 0.1 25V B:CHIP
7
C804 0.1 25V B:CHIP
C826 0.1 25V B:CHIP
C557 0.1 25V B:CHIP
C574 100 :CHIP
IC507 MC74HC11F OVERFLOW PULSE ADD
C833 0.1 25V B:CHIP
+5V
IC515 MC74HC4078FEL CLAMP DETECTER
IC519 MC74HC30F OVERFLOW DETECTER
C836 0.1 25V B:CHIP
R220 10k :CHIP


12
13
14
15
16
17
18
19
20
21
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
L504 12μH
C822 0.1 25V B:CHIP
C828 0.1 25V B:CHIP
+5V
5VD TO P2
ADCK TO P7
TO P4
RAD
IC511 CXD2302Q R-AD CONVERT
VRTS
VRT
5V/A
VIN
GND/A
VRB
VRBS
VREF
CCP
GND/D
SLE
OE
NC
CLE
5V/D
D7
D6
D5
D4
D3
D2
D1
D0/L
RAD7
RAD6
RAD5
RAD4
RAD3
RAD2
RAD1
RAD0
TP501
C812 0.1 25V B:CHIP
C819 0.1 25V B:CHIP
C803 0.1 25V B:CHIP
C825 0.1 25V B:CHIP
C832 0.1 25V B:CHIP
IC514 MC74HC4078FEL CLAMP DETECTER
IC518 MC74HC30F OVERFLOW DETECTER
C835 0.1 25V B:CHIP
NOR
NAND
R933 47 :RN-CP
R939 15k :RN-CP
R938 27k :RN-CP
C821 220 16V
IC510 μPC1093J TOP REFERENCE VOLTAGE
R931 1M :CHIP
R937 0 :CHIP
R936 27k :RN-CP
C820 220 16V
IC509 μPC1093J BOTTOM REFERENCE VOLTAGE
C831 0.1 25V B:CHIP
IC517 MC74HC244AF-T2 BLACK LEVEL CONTROL
5Y EB YA1 GND YA2 B3 YA3 B2 YA4 B1
EA A1 YB4 A2 YB3 A3 YB2 A4 YB1 GND
R944 100k :CHIP
R945 100k :CHIP
R946 100k :CHIP
C824 0.1 25V B:CHIP
C830 0.1 25V B:CHIP
TO P5
GAD
IC513 CXD2302Q G-AD CONVERT
TP502
C815 0.1 25V B:CHIP
C817 0.1 25V B:CHIP
6
C805 0.1 25V B:CHIP
C827 0.1 25V B:CHIP
GAD7
GAD6
GAD5
GAD4
GAD3
GAD2
GAD1
GAD0
IC516 MC74HC4078FEL CLAMP DETECTER
C834 0.1 25V B:CHIP
IC520 MC74HC30F OVERFLOW DETECTER
C837 0.1 25V B:CHIP
C823 0.1 25V B:CHIP
C829 0.1 25V B:CHIP
TO P6
BAD
IC512 CXD2302Q B-AD CONVERT
TP503
C814 0.1 25V B:CHIP
C816 0.1 25V B:CHIP
7
C804 0.1 25V B:CHIP
C826 0.1 25V B:CHIP
BAD7
BAD6
BAD5
BAD4
BAD3
BAD2
BAD1
BAD0
C833 0.1 25V B:CHIP
IC515 MC74HC4078FEL CLAMP DETECTER
IC519 MC74HC30F OVERFLOW DETECTER
C836 0.1 25V B:CHIP
B-SS3397<U/C>-A..P3

(10) A Board (GEN-LOCK : 10/10)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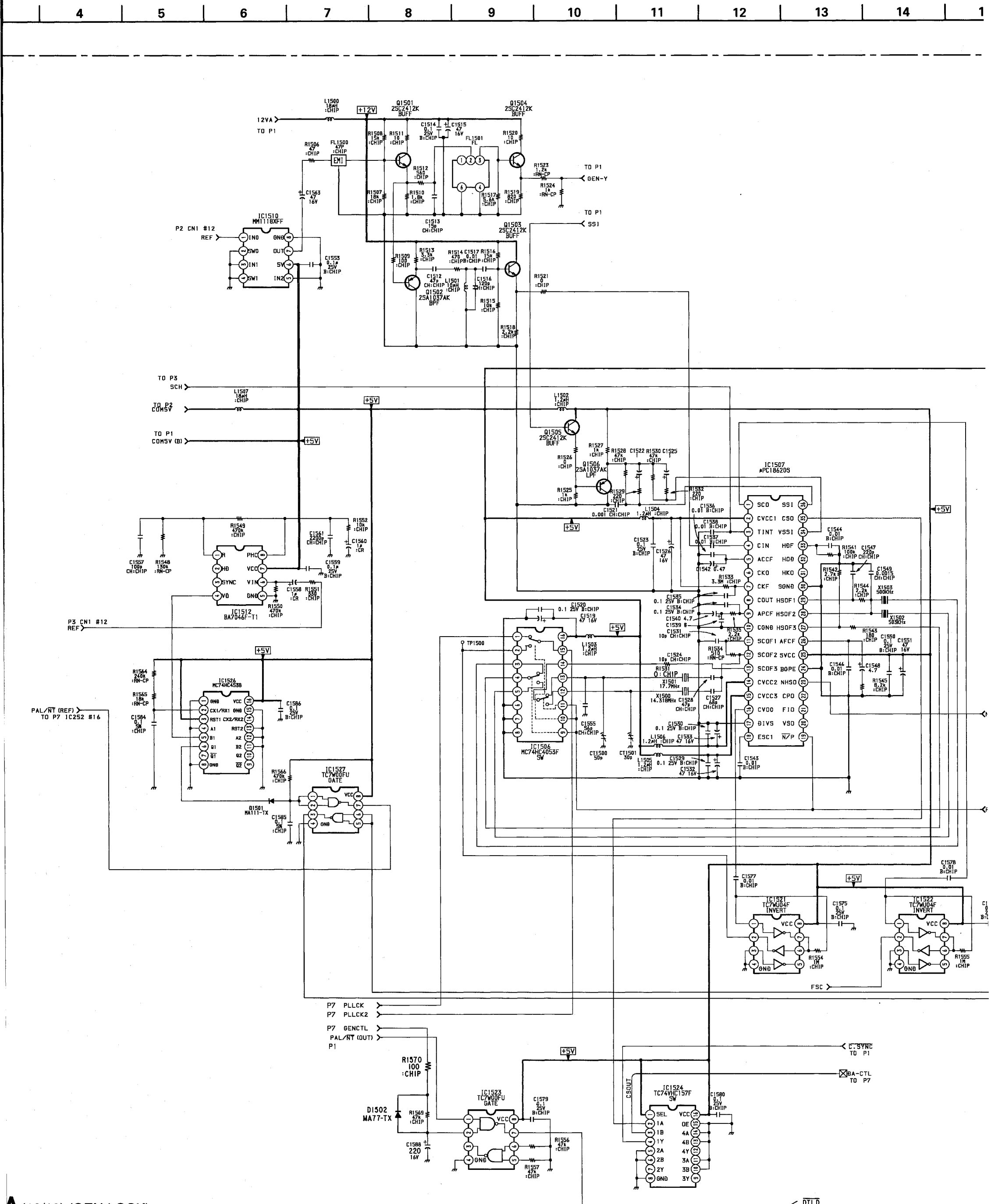
K
L
M
N
O
12VA
TO P1
L1500 18μH :CHIP
+12V
Q1501 2SC2412K BUFF
R1506 47 :CHIP
FL1500 47P :CHIP
EMI
R1508 15k :CHIP
R1511 10 :CHIP
C1514 0.1 25V B:CHIP
R1512 560 :CHIP
R1507 18k :CHIP
R1510 1.8k :CHIP
C1563 47 16V
C1513 15p CH:CHIP
IC1510 MM1118XFF
P2 CN1 #12
REF
IN0
SW0
IN1
SW1
GND
OUT
5V
IN2
C1553 0.1μ 25V B:CHIP
R1509 100 :CHIP
R1513 3.3k :CHIP
C1512 47p CH:CHIP
Q1502 2SA1037AK BPF
TO P3
SCH
TO P2
COM5V
L1507 18μH :CHIP
+5V
TO P1
COM5V (B)
+5V
R1549 470k :CHIP
R1552 10k :CHIP
C1561 2200p CH:CHIP
C1560 1μ :CR
C1557 100p CH:CHIP
R1548 130k :RN-CP
R
HD
SYNC
VD
PHC
VCC
VIN
GND
C1559 0.1μ 25V B:CHIP
C1558 1μ :CR
R1551 330 :CHIP
R1550 470k :CHIP
IC1512 BA7046F-T1
P3 CN1 #12
REF
+5V
R1564 240k :RN-CP
R1565 18k :RN-CP
C1584 0.1 50V :CHIP
IC1526 MC74HC4538
GND
CX1/RX1
RST1
A1
B1
Q1
Q̅1̅
GND
VCC
GND
CX2/RX2
RST2
A2
B2
Q2
Q̅2̅
C1586 0.1 25V B:CHIP
PAL/N̅T̅ (REF)
TO P7 IC252 #16
R1566 470k :CHIP
IC1527 TC7W00FU GATE
VCC
GND
D1501 MA111-TX
C1585 0.1 50V :CHIP
P7 PLLCK
P7 PLLCK2
P7 GENCTL
PAL/N̅T̅ (OUT)
P1
R1570 100 :CHIP
D1502 MA77-TX
R1569 47k :CHIP
C1588 220 16V
A(10/10) (GEN-LOCK)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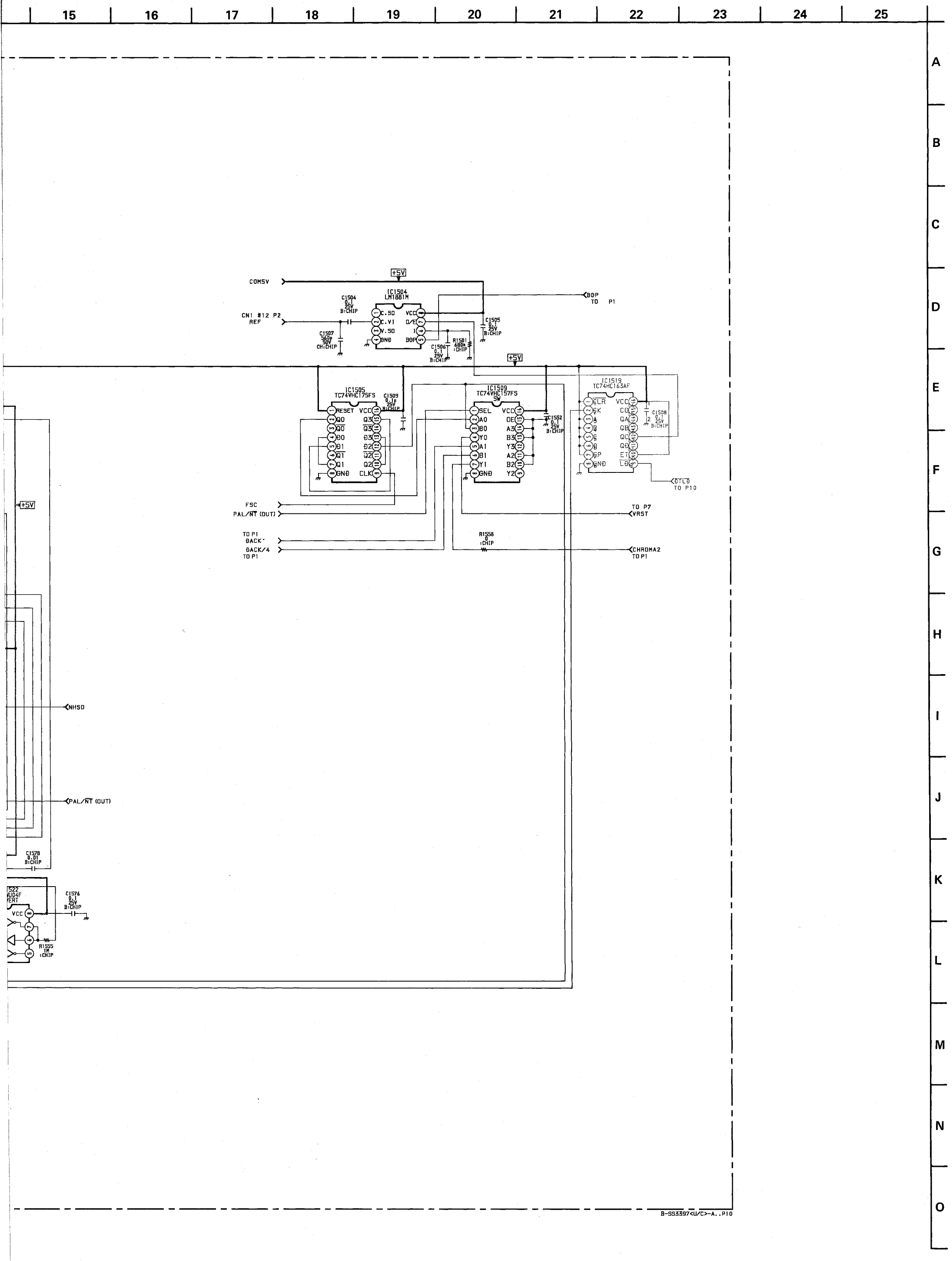
12VA
TO P1
L1500 18μH :CHIP
+12V
Q1501 2SC2412K BUFF
Q1504 2SC2412K BUFF
FL1500 47P :CHIP
EMI
FL1501 FL
TO P1
GEN-Y
TO P1
SSI
Q1503 2SC2412K BUFF
Q1502 2SA1037AK BPF
IC1510 MM1118XFF
P2 CN1 #12
REF
TO P3
SCH
TO P2
COM5V
TO P1
COM5V (B)
+5V
L1507 18μH :CHIP
L1502 1.2μH :CHIP
Q1505 2SC2412K BUFF
Q1506 2SA1037AK LPF
IC1507 μPC1862GS
IC1512 BA7046F-T1
P3 CN1 #12
REF
IC1506 MC74HC4053F SW
TP1500
X1501 17.7MHz
X1500 14.318MHz
X1503 500KHz
X1502 503KHz
IC1526 MC74HC4538
PAL/NT (REF)
TO P7 IC252 #16
IC1527 TC7W00FU GATE
D1501 MA111-TX
IC1521 TC7WU04F INVERT
IC1522 TC7WU04F INVERT
FSC
P7 PLLCK
P7 PLLCK2
P7 GENCTL
PAL/NT (OUT)
P1
C.SYNC
TO P1
BA-CTL
TO P7
R1570 100 :CHIP
D1502 MA77-TX
IC1523 TC7W00FU GATE
IC1524 TC74VHC157F SW
CSOUT
DTLD
TO P10

A (10/10) (GEN-LOCK)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A
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J
K
L
M
N
O
+5V
COMSV
IC1504
LM1881M
C1504
0.1
25V
B:CHIP
CN1 #12 P2
REF
C1507
560p
50V
CH:CHIP
C.SO
C.VI
V.SO
GND
VCC
O/E
I
BGP
BGP
TO P1
C1505
0.1
25V
B:CHIP
C1506
0.1
25V
B:CHIP
R1501
680k
:CHIP
+5V
IC1505
TC74VHC175FS
C1509
0.1p
25V
B:CHIP
RESET
Q0
$\overline{Q0}$
D0
D1
$\overline{Q1}$
Q1
GND
VCC
Q3
$\overline{Q3}$
D3
D2
$\overline{Q2}$
Q2
CLK
IC1509
TC74VHC157FS
SW
SEL
A0
B0
Y0
A1
B1
Y1
GND
VCC
OE
A3
B3
Y3
A2
B2
Y2
C1552
0.1
25V
B:CHIP
IC1519
TC74HC163AF
$\overline{CLR}$
CK
A
B
C
D
EP
GND
VCC
CO
QA
QB
QC
QD
ET
$\overline{LD}$
C1508
0.1
25V
B:CHIP
$\overline{DTLD}$
TO P10
+5V
FSC
PAL/$\overline{NT}$ (OUT)
TO P7
VRST
TO P1
DACK'
DACK/4
TO P1
R1558
0
:CHIP
CHROMA2
TO P1
NHSD
PAL/$\overline{NT}$ (OUT)
C1578
0.01
B:CHIP
522
WU04F
VERT
VCC
C1576
0.1
25V
B:CHIP
R1555
1M
:CHIP
B-SS3397<U/C>-A..P10

(3) A Board (LPF BLK : 8/10)

• A(8/10) BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]
IC501	1	1.2
	5	1.2
	9	0
	10	4.6
	11	0
	12	1.2
	13	1.2
	14	1.2
	15	0
	16	4.9
Q501	B	0
	C	5.0
	E	0
Q502	B	0
	C	4.9
	E	0
Q503	B	0
	C	4.9
	E	0
Q504	B	2.6
	C	4.9
	E	1.9
Q505	B	0
	C	5.0
	E	0
Q506	B	0
	C	5.0
	E	0
Q507	B	1.2
	C	0
	E	0

Ref.	Pin No.	Voltage [V]
Q508	B	1.2
	C	0
	E	0
Q509	B	1.2
	C	0
	E	0
Q510	B	0
	C	2.6
	E	0
Q511	B	1.2
	C	0
	E	0
Q512	B	1.2
	C	0
	E	0
Q513	B	0
	C	0
	E	0
Q514	B	0
	C	0
	E	0
Q515	B	0
	C	0
	E	0
Q516	B	0.9
	C	0
	E	1.6
Q517	B	0
	C	0

Ref.	Pin No.	Voltage [V]
	E	0
Q518	B	0
	C	0
	E	0
Q519	B	0
	C	5.0
	E	0
Q520	B	0
	C	5.0
	E	0
Q521	B	0
	C	5.0
	E	0
Q522	B	3.7
	C	5.0
	E	3.0
Q523	B	0
	C	5.0
	E	0
Q524	B	0
	C	5.0
	E	0
Q525	B	1.2
	C	0
	E	0
Q526	B	1.2
	C	0
	E	0
Q527	B	1.2

Ref.	Pin No.	Voltage [V]
	C	0.1
	E	0
Q528	B	0
	C	3.7
	E	0
Q529	B	1.2
	C	0.1
	E	0
Q530	B	1.2
	C	0
	E	0
Q531	B	0
	C	4.9
	E	0.9
Q532	B	0
	C	5.0
	E	0.9
Q533	B	0
	C	4.9
	E	0.9
Q534	B	1.5
	C	5.0
	E	0.9
Q535	B	0
	C	4.9
	E	0.9
Q536	B	0
	C	4.9
	E	0.9

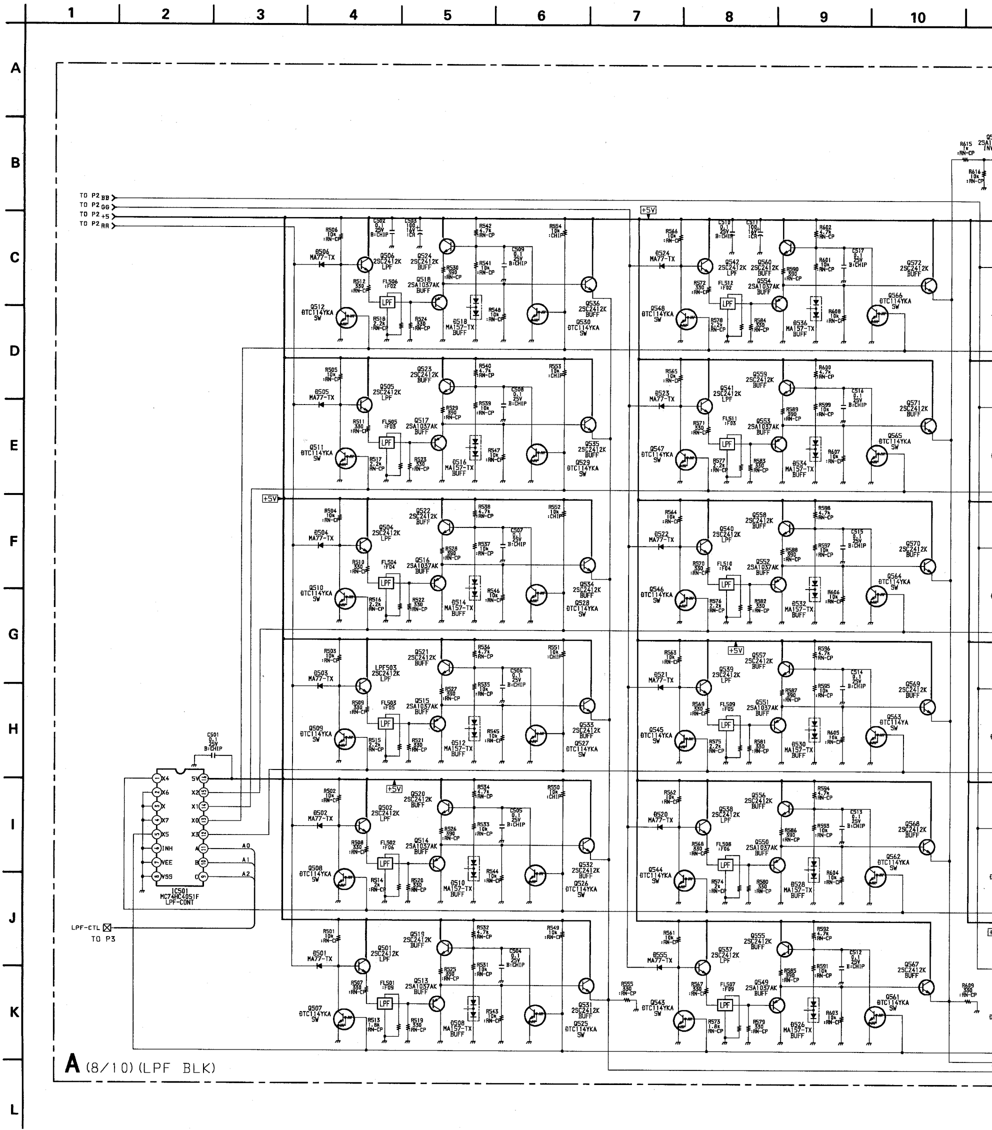
Ref.	Pin No.	Voltage [V]
Q537	B	0
	C	4.9
	E	0
Q538	B	0
	C	5.0
	E	0
Q539	B	0
	C	5.0
	E	0
Q540	B	2.7
	C	4.9
	E	2.1
Q541	B	0
	C	5.0
	E	0
Q542	B	0
	C	5.0
	E	0
Q543	B	1.2
	C	0
	E	0
Q544	B	1.2
	C	0
	E	0
Q545	B	1.2
	C	0
	E	0
Q546	B	0
	C	2.7

Ref.	Pin No.	Voltage [V]
	E	0
Q547	B	1.2
	C	0
	E	0
Q548	B	1.2
	C	0
	E	0
Q549	B	0
	C	0
	E	0
Q550	B	0
	C	0
	E	0
Q551	B	0
	C	0
	E	0
Q552	B	1.0
	C	0
	E	1.6
Q553	B	0
	C	0
	E	0
Q554	B	0
	C	0
	E	0
Q555	B	0.1
	C	5.0
	E	0
Q556	B	0

Ref.	Pin No.	Voltage [V]
	C	5.0
	E	0
Q557	B	0
	C	5.0
	E	0
Q558	B	3.7
	C	5.0
	E	3.0
Q559	B	0
	C	5.0
	E	0
Q560	B	0.1
	C	5.0
	E	0
Q561	B	1.2
	C	0
	E	0
Q562	B	1.2
	C	0
	E	0
Q563	B	1.2
	C	0
	E	0
Q564	B	0
	C	3.7
	E	0
Q565	B	1.2
	C	0
	E	0

Ref.	Pin No.	Voltage [V]
Q566	B	1.2
	C	0
	E	0
Q567	B	0
	C	5.0
	E	1.0
Q568	B	0
	C	5.0
	E	1.0
Q569	B	0
	C	5.0
	E	1.0
Q570	B	1.6
	C	5.0
	E	1.0
Q571	B	0
	C	5.0
	E	1.0
Q572	B	0
	C	5.0
	E	1.0
Q573	B	0.9
	C	0
	E	1.5
Q574	B	0
	C	5.0
	E	0
Q575	B	0
	C	5.0
	E	0

Ref.	Pin No
Q576	B
	C
	E
Q577	B
	C
	E
Q578	B
	C
	E
Q579	B
	C
	E
Q580	B
	C
	E
Q581	B
	C
	E
Q582	B
	C
	E
Q583	B
	C
	E
Q584	B
	C
	E
Q585	B
	C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A
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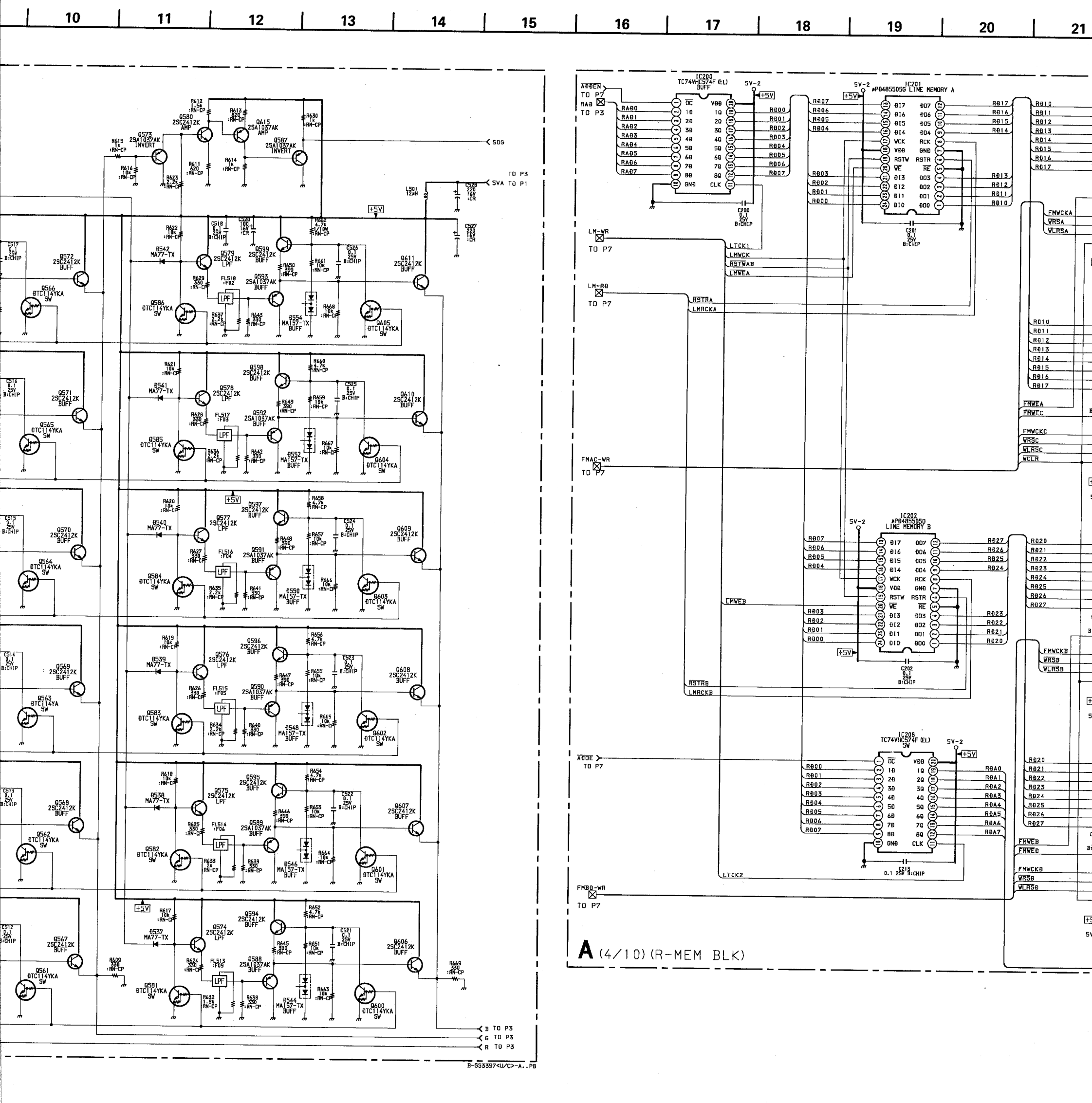
I
J
K
L
TO P2 BB
TO P2 GG
TO P2 +5
TO P2 RR
+5V
LPF-CTL
TO P3
C501 0.1 25V B:CHIP
IC501 MC74HC4051F LPF-CONT
X4
X6
X
X7
X5
INH
VEE
VSS
5V
X2
X1
X0
X3
A
B
C
A0
A1
A2
LPF
Q501 MA77-TX
Q502 MA77-TX
Q503 MA77-TX
Q504 MA77-TX
Q505 MA77-TX
Q506 MA77-TX
Q507 DTC114YKA SW
Q508 DTC114YKA SW
Q509 DTC114YKA SW
Q510 DTC114YKA SW
Q511 DTC114YKA SW
Q512 DTC114YKA SW
Q501 2SC2412K LPF
Q502 2SC2412K LPF
Q504 2SC2412K LPF
Q505 2SC2412K LPF
Q506 2SC2412K LPF
Q513 2SA1037AK BUFF
Q514 2SA1037AK BUFF
Q515 2SA1037AK BUFF
Q516 2SA1037AK BUFF
Q517 2SA1037AK BUFF
Q518 2SA1037AK BUFF
Q519 2SC2412K BUFF
Q520 2SC2412K BUFF
Q521 2SC2412K BUFF
Q522 2SC2412K BUFF
Q523 2SC2412K BUFF
Q524 2SC2412K BUFF
Q508 MA157-TX BUFF
Q510 MA157-TX BUFF
Q512 MA157-TX BUFF
Q514 MA157-TX BUFF
Q516 MA157-TX BUFF
Q518 MA157-TX BUFF
Q531 2SC2412K BUFF
Q532 2SC2412K BUFF
Q533 2SC2412K BUFF
Q534 2SC2412K BUFF
Q535 2SC2412K BUFF
Q536 2SC2412K BUFF
Q525 DTC114YKA SW
Q526 DTC114YKA SW
Q527 DTC114YKA SW
Q528 DTC114YKA SW
Q529 DTC114YKA SW
Q530 DTC114YKA SW
FL501 :F09
FL502 :F06
FL503 :F05
FL504 :F04
FL505 :F03
FL506 :F02
Q520 MA77-TX
Q521 MA77-TX
Q522 MA77-TX
Q523 MA77-TX
Q524 MA77-TX
Q555 MA77-TX
Q543 DTC114YKA SW
Q544 DTC114YKA SW
Q545 DTC114YKA SW
Q546 DTC114YKA SW
Q547 DTC114YKA SW
Q548 DTC114YKA SW
Q537 2SC2412K LPF
Q538 2SC2412K LPF
Q539 2SC2412K LPF
Q540 2SC2412K LPF
Q541 2SC2412K LPF
Q542 2SC2412K LPF
Q549 2SA1037AK BUFF
Q550 2SA1037AK BUFF
Q551 2SA1037AK BUFF
Q552 2SA1037AK BUFF
Q553 2SA1037AK BUFF
Q554 2SA1037AK BUFF
Q555 2SC2412K BUFF
Q556 2SC2412K BUFF
Q557 2SC2412K BUFF
Q558 2SC2412K BUFF
Q559 2SC2412K BUFF
Q560 2SC2412K BUFF
Q526 MA157-TX BUFF
Q528 MA157-TX BUFF
Q530 MA157-TX BUFF
Q532 MA157-TX BUFF
Q534 MA157-TX BUFF
Q536 MA157-TX BUFF
Q567 2SC2412K BUFF
Q568 2SC2412K BUFF
Q569 2SC2412K BUFF
Q570 2SC2412K BUFF
Q571 2SC2412K BUFF
Q572 2SC2412K BUFF
Q561 DTC114YKA SW
Q562 DTC114YKA SW
Q563 DTC114YA SW
Q564 DTC114YKA SW
Q565 DTC114YKA SW
Q566 DTC114YKA SW
FL507 :F09
FL508 :F06
FL509 :F05
FL510 :F04
FL511 :F03
FL512 :F02
R555 330 :RN-CP
R609 330 :RN-CP
R615 1k :RN-CP
R616 10k :RN-CP
A (8/10) (LPF BLK)

Schematic diagram
← A (10/10) board

Schematic diagramS
A (4/10) A (8/10) board ➡

(5) A Board (R-MEM BLK : 4/10)

Ref.	Pin No.	Voltage [V]
Q566	B C E	1.2 0 0
Q567	B C E	0 5.0 1.0
Q568	B C E	0 5.0 1.0
Q569	B C E	0 5.0 1.0
Q570	B C E	1.6 5.0 1.0
Q571	B C E	0 5.0 1.0
Q572	B C E	0 5.0 1.0
Q573	B C E	0.9 0 1.5
Q574	B C E	0 5.0 0
Q575	B C E	0 5.0 0
Q576	B C E	0 5.0 0
Q577	B C E	2.6 5.0 1.9
Q578	B C E	0 5.0 0
Q579	B C E	0 5.0 0
Q580	B C E	1.5 2.8 0.9
Q581	B C E	1.2 0 0
Q582	B C E	1.2 0 0
Q583	B C E	1.2 0 0
Q584	B C E	0 2.6 0
Q585	B C E	1.2 0 0
Q586	B C E	1.2 0 0
Q587	B C E	1.9 0 2.5
Q588	B C E	0 0 0
Q589	B C E	0 0 0
Q590	B C E	0 0 0
Q591	B C E	0.9 0 1.5
Q592	B C E	0 0 0
Q593	B C E	0 0 0
Q594	B C E	0.1 5.0 0
Q595	B C E	0 5.0 0
Q596	B C E	0 5.0 0
Q597	B C E	3.7 5.0 3.0
Q598	B C E	0.1 5.0 0
Q599	B C E	0.1 5.0 0
Q600	B C E	1.2 0 0
Q601	B C E	1.2 0 0
Q602	B C E	1.2 0 0
Q603	B C E	0 3.7 0
Q604	B C E	1.2 0 0
Q605	B C E	1.2 0 0
Q606	B C E	0 5.0 0.9
Q607	B C E	0 5.0 0.9
Q608	B C E	0 5.0 0.9
Q609	B C E	1.5 5.0 0.9
Q610	B C E	0 5.0 0.9
Q611	B C E	0 5.0 0.9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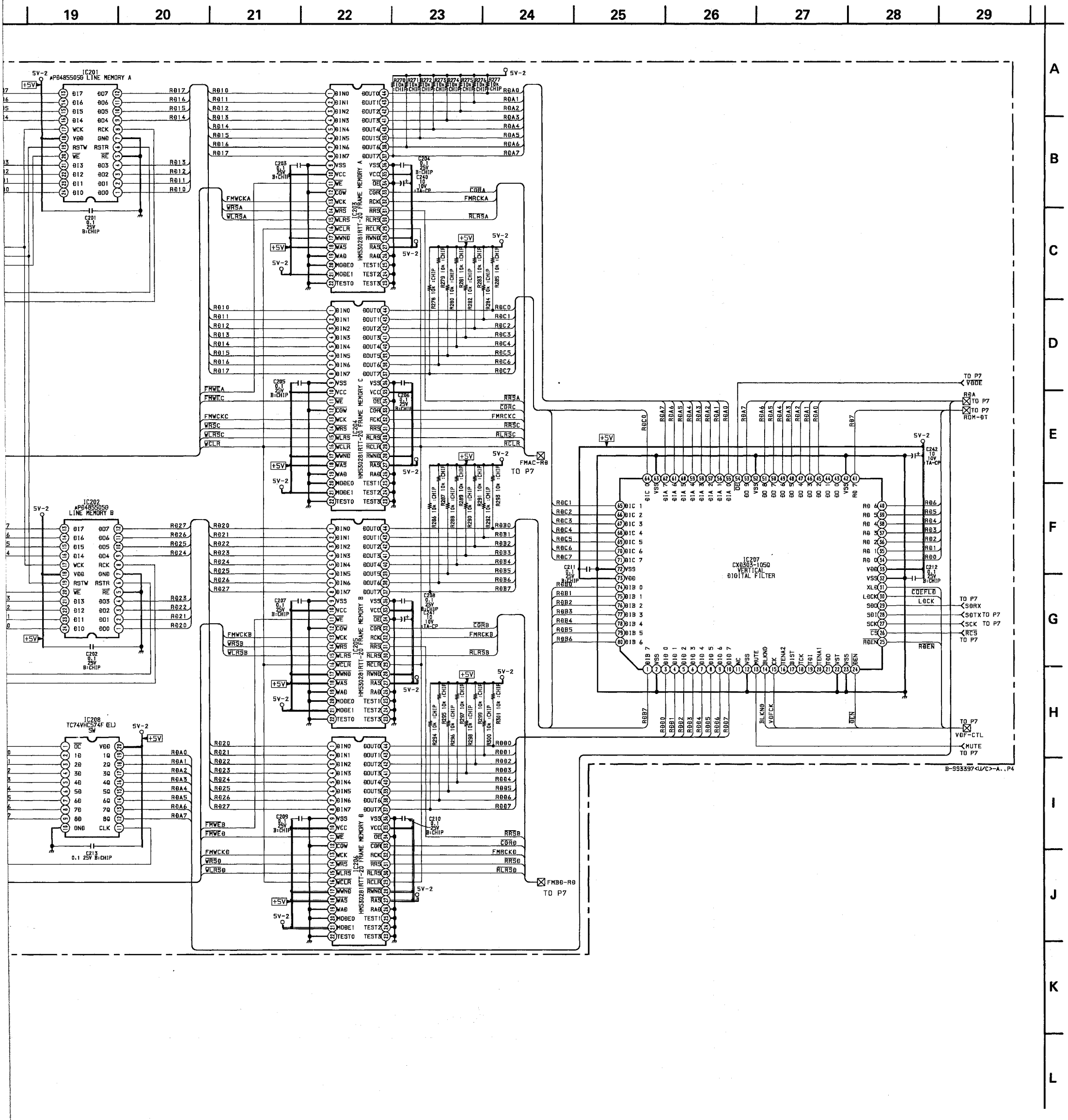
SOG
SVA TO P1
TO P3
+5V
Q573 2SA1037AK INVERT
Q580 2SC2412K AMP
Q615 2SA1037AK AMP
Q587 2SA1037AK INVERT
Q572 2SC2412K BUFF
Q566 DTC114YKA SW
Q579 2SC2412K LPF
Q599 2SC2412K BUFF
Q593 2SA1037AK BUFF
Q586 DTC114YKA SW
Q554 MA157-TX BUFF
Q611 2SC2412K BUFF
Q605 DTC114YKA SW
Q598 2SC2412K BUFF
Q578 2SC2412K LPF
Q592 2SA1037AK BUFF
Q585 DTC114YKA SW
Q610 2SC2412K BUFF
Q604 DTC114YKA SW
Q597 2SC2412K BUFF
Q577 2SC2412K LPF
Q591 2SA1037AK BUFF
Q584 DTC114YKA SW
Q609 2SC2412K BUFF
Q603 DTC114YKA SW
Q596 2SC2412K BUFF
Q576 2SC2412K LPF
Q590 2SA1037AK BUFF
Q583 DTC114YKA SW
Q608 2SC2412K BUFF
Q602 DTC114YKA SW
Q595 2SC2412K BUFF
Q575 2SC2412K LPF
Q589 2SA1037AK BUFF
Q582 DTC114YKA SW
Q607 2SC2412K BUFF
Q601 DTC114YKA SW
Q594 2SC2412K BUFF
Q574 2SC2412K LPF
Q588 2SA1037AK BUFF
Q581 DTC114YKA SW
Q606 2SC2412K BUFF
Q600 DTC114YKA SW
LPF
B TO P3
G TO P3
R TO P3
B-S53397<U/C>-A..P8
IC200 TC74VHC574F (EL) BUFF
IC201 μPD485505G LINE MEMORY A
IC202 μPD485505G LINE MEMORY B
IC208 TC74VHC574F (EL) SW
ADOEN TO P7
RA0 TO P3
LM-WR TO P7
LM-RD TO P7
FMAC-WR TO P7
ABOE TO P7
FMBO-WR TO P7
5V-2
LTCK1
LMWCK
RSTWAB
LMWEA
RSTRA
LMRCKA
LMWEB
RSTRB
LMRCKB
LTCK2
FMWCKA
WRSA
WLRSA
FMWEA
FMWEC
FMWCKC
WRSC
WLRSC
WCLR
FMWCKB
WRSB
WLRSB
FMWEB
FMWED
FMWCKD
WRSD
WLRSD
A (4/10) (R-MEM BLK)

19
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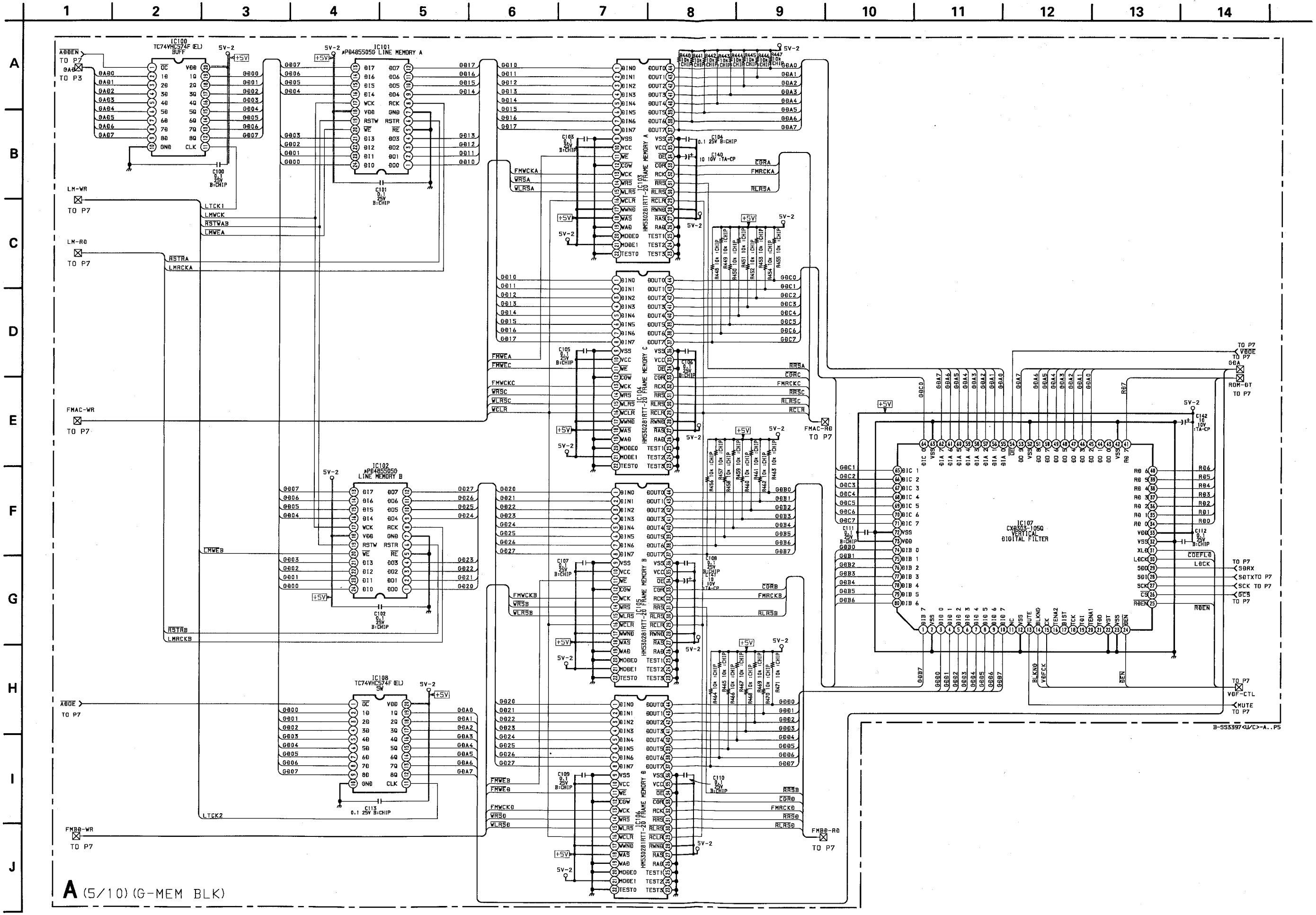
I
J
K
L
IC201 μPD485505G LINE MEMORY A
IC202 μPD485505G LINE MEMORY B
IC208 TC74VHC574F (EL)
IC203 HM53028IRTT-20 FRAME MEMORY A
IC204 HM53028IRTT-20 FRAME MEMORY C
IC205 HM53028IRTT-20 FRAME MEMORY B
IC206 HM53028IRTT-20 FRAME MEMORY D
IC207 CXD303-105Q VERTICAL DIGITAL FILTER
5V-2
+5V
FMAC-RD TO P7
FMBD-RD TO P7
TO P7 VDDE
RDA TO P7
TO P7 ROM-0T
TO P7 SDRX
SDTX TO P7
SCK TO P7
NCS TO P7
TO P7 VDF-CTL
MUTE TO P7
COEFLD
LOCK
RDEN
FMWCKA
WRSA
WLRSA
FMRCKA
CGRA
RLRSA
FMWEA
FMWEC
FMWCKC
WRSC
WLRSC
WCLR
RRSA
CGRC
FMRCKC
RRSC
RLRSC
RCLR
FMWCKB
WRSB
WLRSB
CGRB
FMRCKB
RLRSB
FMWEB
FMWED
FMWCKD
WRSD
WLRSD
RRSB
CGRD
FMRCKD
RRSD
RLRSD
B-SS3397<U/C>-A..P4

(6) A Board (G-MEM BLK : 5/10)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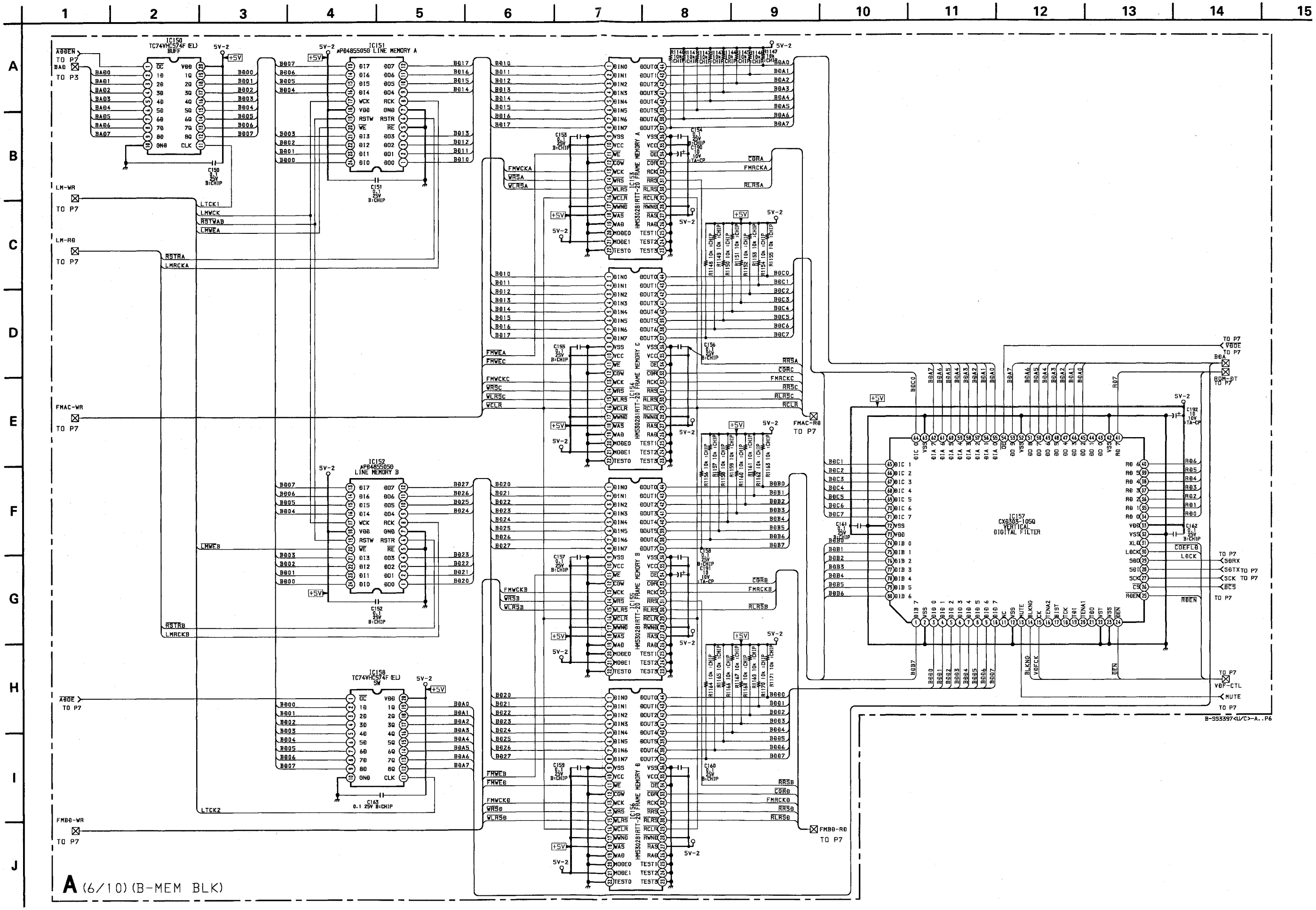
IC100
TC74VHC574F (EL)
BUFF
IC101
μPD485505G LINE MEMORY A
IC102
μPD485505G
LINE MEMORY B
IC103
HM530281RT-20 FRAME MEMORY A
IC104
HM530281RT-20 FRAME MEMORY C
IC105
HM530281RT-20 FRAME MEMORY B
IC106
HM530281RT-20 FRAME MEMORY D
IC107
CXD303-105Q
VERTICAL
DIGITAL FILTER
IC108
TC74VHC574F (EL)
SW
ABGEN
TO P7
GA0
TO P3
LM-WR
TO P7
LM-RD
TO P7
FMAC-WR
TO P7
ABOE
TO P7
FMBD-WR
TO P7
FMAC-RD
TO P7
FMBD-RD
TO P7
TO P7
VBOE
TO P7
GDA
ROM-BT
TO P7
TO P7
SDRX
SDTXTO P7
SCK TO P7
CS
TO P7
TO P7
VBF-CTL
MUTE
TO P7
5V-2
+5V
A (5/10) (G-MEM BLK)
B-SS3397<U/C>-A..P5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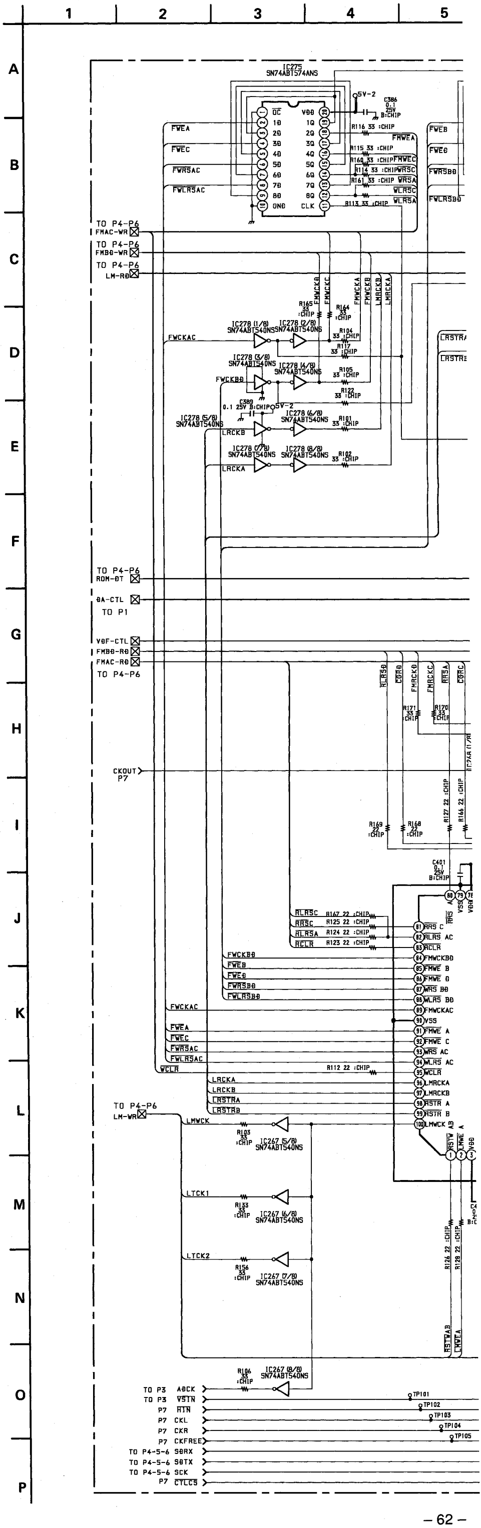
IC150 TC74VHC574F (EL) BUFF
IC151 µPD485505G LINE MEMORY A
IC152 µPD485505G LINE MEMORY B
IC153 HM530281RTT-20 FRAME MEMORY A
IC154 HM530281RTT-20 FRAME MEMORY C
IC155 HM530281RTT-20 FRAME MEMORY B
IC156 HM530281RTT-20 FRAME MEMORY D
IC157 CXD303-105Q VERTICAL DIGITAL FILTER
IC158 TC74VHC574F (EL) SW
ABOEN TO P7
BAB TO P3
LM-WR TO P7
LM-RB TO P7
FMAC-WR TO P7
FMAC-RB TO P7
ABOE TO P7
FMBD-WR TO P7
FMBD-RB TO P7
VBOE TO P7
BDA TO P7
BDM-DT TO P7
SBRX
SBTX TO P7
SCK TO P7
BCS
VBF-CTL
MUTE
TO P7
A (6/10) (B-MEM BLK)
B-593397<U/C>-A..P6

Schematic diagram
← A (5/10) board

Schematic diagram
A (6/10) board →

(9) A Board (CPU BLK : 7/10)



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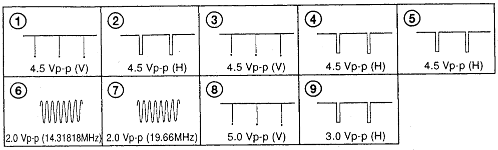
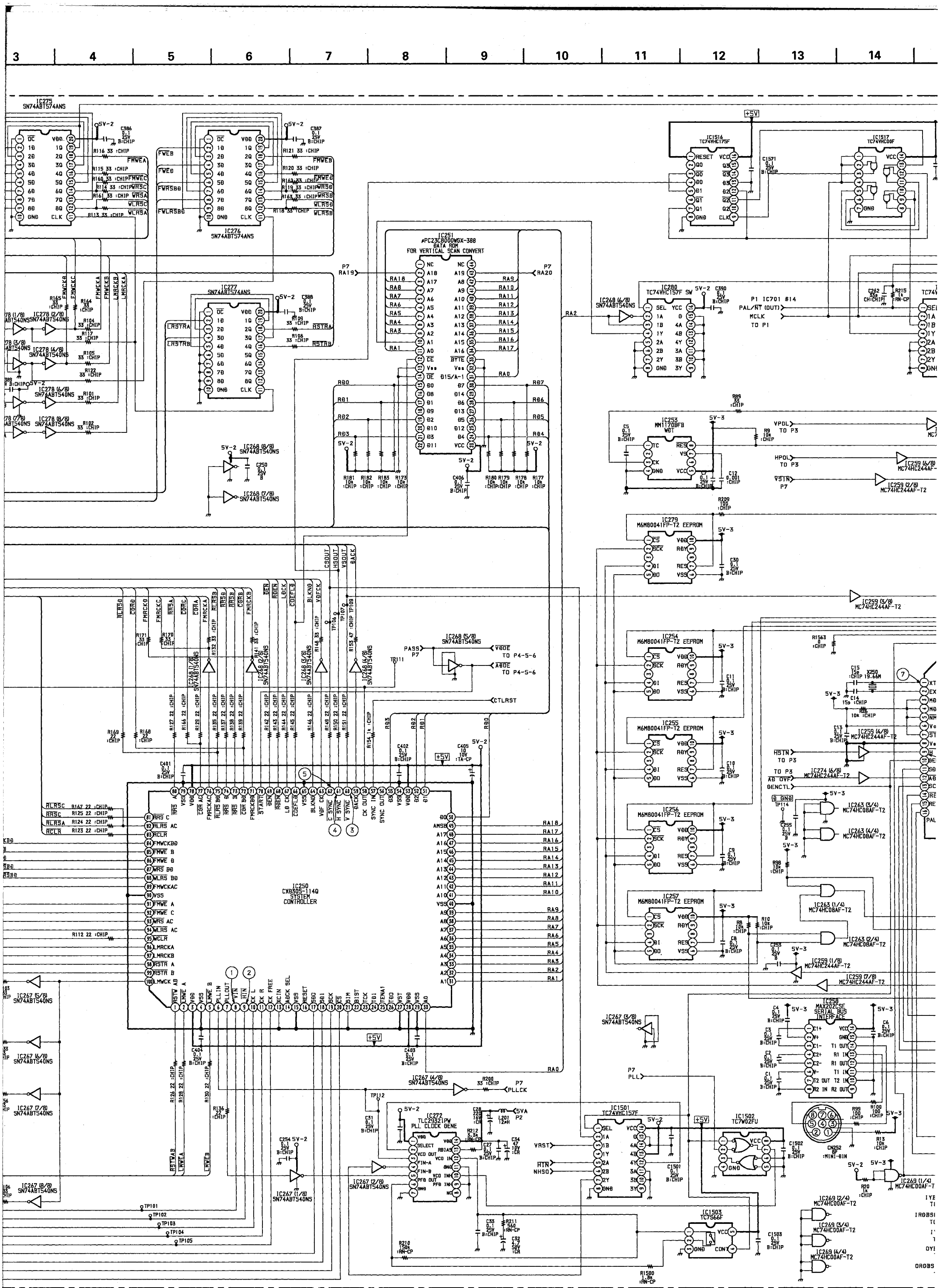
P
IC275
SN74ABT574ANS
5V-2
C386 0.1 25V B:CHIP
FWEA
FWEC
FWRSAC
FWLRSAC
FWEB
FWE0
FWRSB0
FWLRSB0
TO P4-P6
FMAC-WR
FMB0-WR
LM-R0
FWCKAC
FWCKB0
LRCKB
LRCKA
IC278 (1/8) SN74ABT540NS
IC278 (2/8) SN74ABT540NS
IC278 (3/8) SN74ABT540NS
IC278 (4/8) SN74ABT540NS
IC278 (5/8) SN74ABT540NS
IC278 (6/8) SN74ABT540NS
IC278 (7/8) SN74ABT540NS
IC278 (8/8) SN74ABT540NS
C389 0.1 25V B:CHIP
LRSTRA
LRSTRB
ROM-0T
0A-CTL
TO P1
V0F-CTL
FMB0-R0
FMAC-R0
CKOUT P7
C401 0.1 25V B:CHIP
RLRSC
RRSC
RLRSA
RCLR
FWCKB0
WCLR
LRCKA
LRCKB
LRSTRA
LRSTRB
LM-WR
LMWCK
LTCK1
LTCK2
IC267 (5/8) SN74ABT540NS
IC267 (6/8) SN74ABT540NS
IC267 (7/8) SN74ABT540NS
IC267 (8/8) SN74ABT540NS
TO P3 A0CK
TO P3 VSTN
P7 HTN
P7 CKL
P7 CKR
P7 CKFREE
TO P4-5-6 S0RX
TO P4-5-6 S0TX
TO P4-5-6 SCK
P7 CTLCS
TP101
TP102
TP103
TP104
TP105

• A(7/10) BOARD WAVEFORMS

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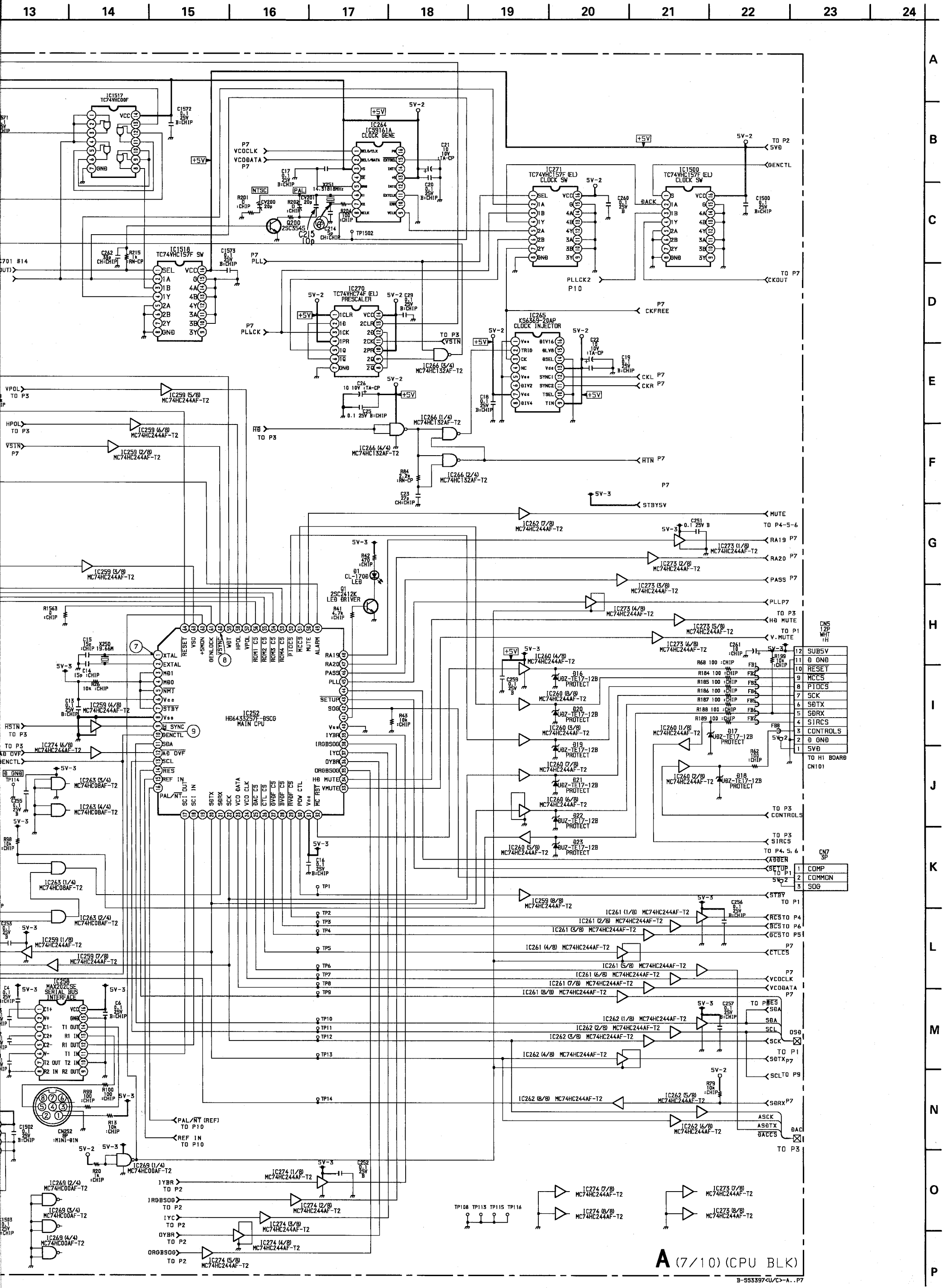
IC275 SN74ABT574ANS
IC276 SN74ABT574ANS
IC277 SN74ABT574ANS
IC251 µPC23C8000WGX-388 DATA ROM FOR VERTICAL SCAN CONVERT
IC280 TC74VHC157F SW
IC1516 TC74VHC175F
IC1517 TC74VHC00F
IC253 MM1170BFB WDT
IC279 M6M80041FP-T2 EEPROM
IC254 M6M80041FP-T2 EEPROM
IC255 M6M80041FP-T2 EEPROM
IC256 M6M80041FP-T2 EEPROM
IC257 M6M80041FP-T2 EEPROM
IC250 CXD9305-114Q SYSTEM CONTROLLER
IC272 TLC2932IPW PLL CLOCK GENE
IC1501 TC74VHC157F
IC1502 TC7W02FU
IC1503 TC7S66F
IC258 MAX202CSE SERIAL BUS INTERFACE
CN252 8P :MINI-DIN
IC268 SN74ABT540NS
IC278 SN74ABT540NS
IC267 SN74ABT540NS
IC259 MC74HC244AF-T2
IC263 MC74HC08AF-T2
IC274 MC74HC244AF-T2
IC269 MC74HC00AF-T2
X250 19.66M
P1 IC701 #14
PAL/NT (OUT)
MCLK TO P1
VPOL TO P3
HPOL TO P3
VSTN P7
HSTN TO P3
AD OVF TO P3
GENCTL
PASS P7
VBDE TO P4-5-6
ABDE TO P4-5-6
CTLRST
PLL P7
PLLCK P7
5VA P2
VRST
HIN
NHSO
CSOUT
HSOUT
VSOUT
BACK
TP101
TP102
TP103
TP104
TP105
TP111
TP112
TP114
+5V
5V-2
5V-3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IC1517 TC74VHC00F
IC264 ICS9161A CLOCK GENE
X251 14.31818MHz
Q200 2SC3545
NTSC
PAL
TP1502
IC1518 TC74VHC157F SW
IC271 TC74VHC157F (EL) CLOCK SW
IC1500 TC74VHC157F (EL) CLOCK SW
IC270 TC74VHC74F (EL) PRESCALER
IC265 KS6369-20AP CLOCK INJECTOR
IC266 (1/4) MC74HC132AF-T2
IC266 (2/4) MC74HC132AF-T2
IC266 (3/4) MC74HC132AF-T2
IC266 (4/4) MC74HC132AF-T2
IC252 HD6433257F-DSCG MAIN CPU
X250 19.66M
Q1 2SC2412K LED DRIVER
D1 CL-170G LED
IC259 MC74HC244AF-T2
IC260 MC74HC244AF-T2
IC261 MC74HC244AF-T2
IC262 MC74HC244AF-T2
IC273 MC74HC244AF-T2
IC274 MC74HC244AF-T2
IC263 MC74HC08AF-T2
IC269 MC74HC00AF-T2
IC258 MAX202CSE SERIAL BUS INTERFACE
CN252 8P :MINI-DIN
D16 UDZ-TE17-12B PROTECT
D17 UDZ-TE17-12B PROTECT
D18 UDZ-TE17-12B PROTECT
D19 UDZ-TE17-12B PROTECT
D20 UDZ-TE17-12B PROTECT
D21 UDZ-TE17-12B PROTECT
D22 UDZ-TE17-12B PROTECT
D23 UDZ-TE17-12B PROTECT
CN5 12P WHT :H
SUBSV
D GND
RESET
MCCS
PIOCS
SCK
SDTX
SDRX
SIRCS
CONTROLS
D GND
5VD
TO H1 BOARD CN101
CN7 3P
COMP
COMMON
SOG
VPOL
HPOL
VSTN
HSTN
AD OVF
GENCTL
PLL
PLLCK
PLLCK2
CKFREE
CKOUT
CKL
CKR
HD
RTN
STBYSV
MUTE
RA19
RA20
PASS
PLLP7
HD MUTE
V.MUTE
ADDEN
SETUP
STBY
RCS
BCS
GCS
CTLCS
VCOCLK
VCODATA
SDA
SCL
SCK
SDTX
SCL
SDRX
ASCK
ASDTX
DACCS
DSD
DAC
PAL/NT (REF)
REF IN
IYBR
IRGBSOG
IYC
OYBR
ORGBSOG
TP108 TP113 TP115 TP116
+5V
5V-2
5V-3

A (7/10) (CPU BLK)

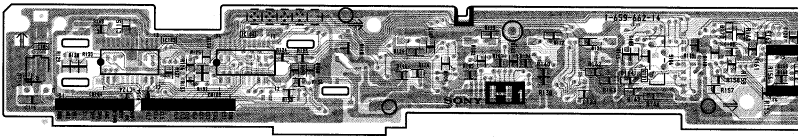
(12) H1 Board (CONTROL SW, SIGNAL LAMP, SIRCS)

• H1 BOARD VOLTAGE LIST

Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC102	1	5.0	IC104	1	0.2
	2	4.9		2	5.0
	3	4.9		3	5.0
	4	4.9		4	5.0
	5	4.9		5	5.0
	6	4.8		7	5.0
	7	4.9		8	5.0
	8	4.9		9	0.2
	9	4.9		10	5.0
	10	4.9		11	5.0
	11	4.9		12	0.2
	12	5.0		13	5.0
	13	5.0		14	5.0
	15	0.1		15	5.0
	19	4.1		16	5.0
	20	4		17	5.0
	21	4		19	0
	22	4.1		20	5.0
	23	5.0		21	5.0
	24	0		22	5.0
	25	5.0		23	5.0
	26	2.2		24	5.0
	27	2.0	IC105	1	5.0
	28	5.0		2	5.0
IC103	1	5.0	Q101	B	0
	2	5.0		C	5.0
	3	0		E	0
	4	0	Q102	B	0.1
	5	5.0		C	0
	7	0.1		E	4.9
	8	5.0	Q103	B	5.0
	9	0.1		C	0
	11	5.0		E	0
	13	0.1			
	14	5.0			
	15	5.0			
	16	5.0			
	17	5.0			

H1 [CONTROL SW / SIGNAL LAMP / SIRCS] **K2** [VIDEO INTER FACE / VIDEO IN OUT]

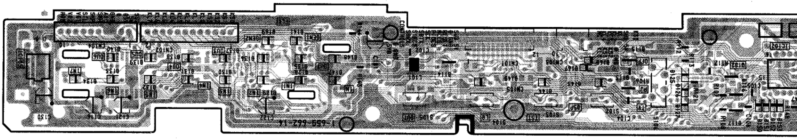
— H1 BOARD (Conductor side) —



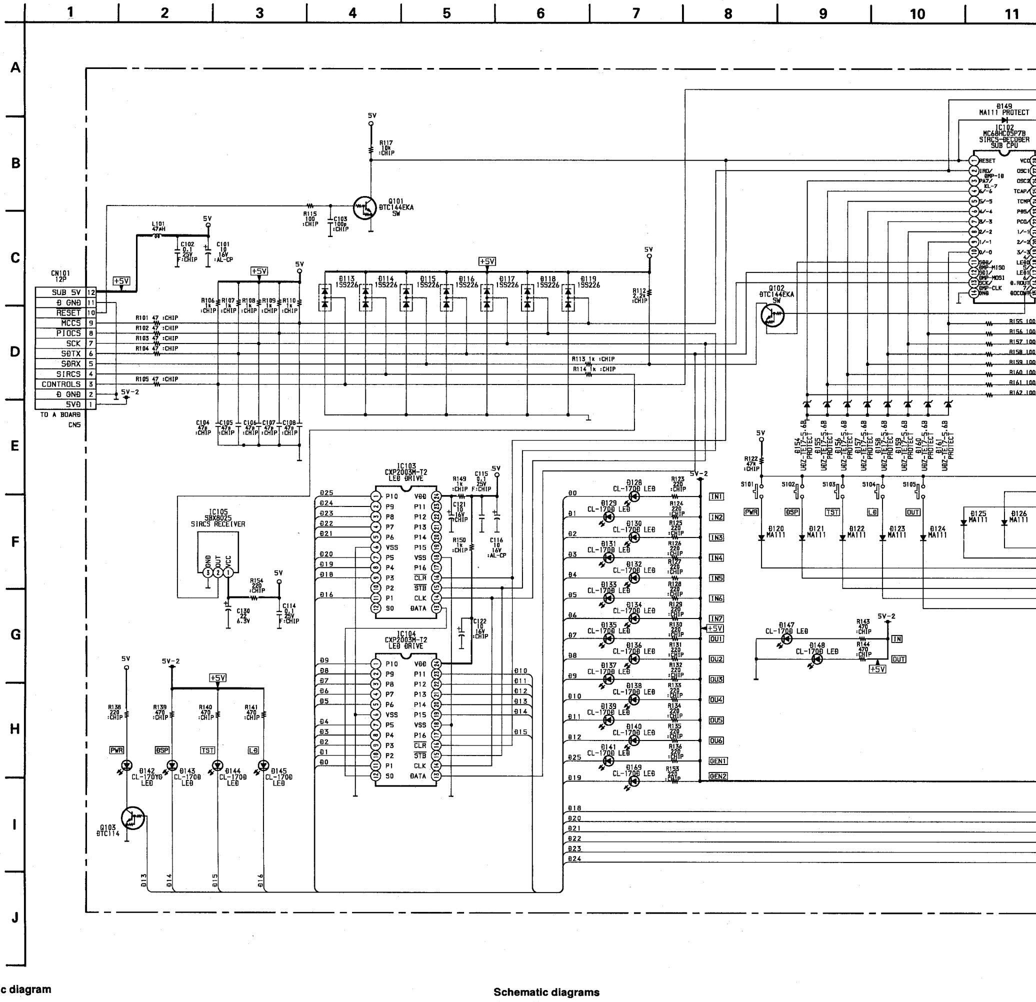
1-659-662-14
SONY
H1

- ▒ : Pattern from th
- ▒ : Pattern of the

— H1 BOARD (Component side) —



- ▒ : Pattern from th
- ▒ : Pattern of the



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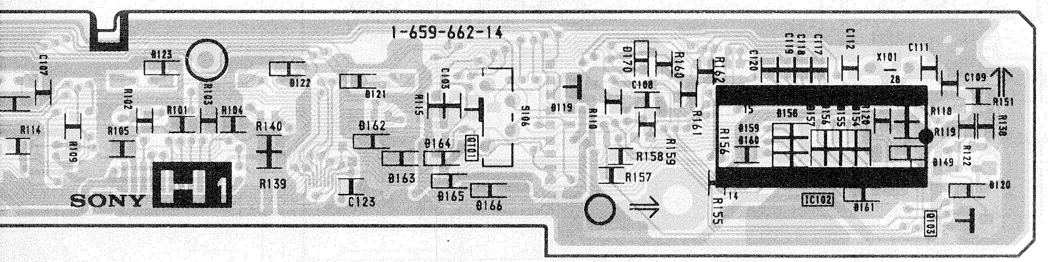
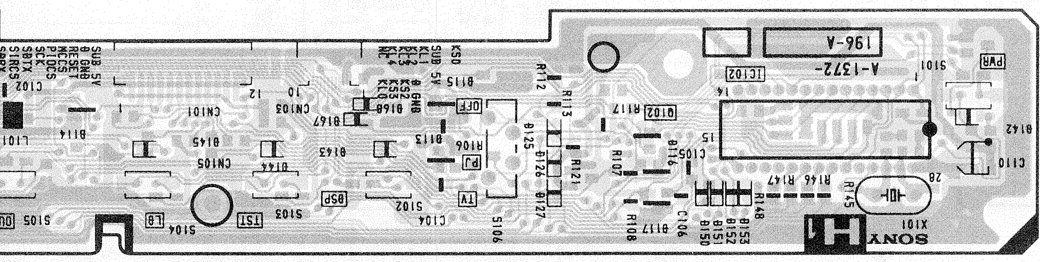
CN101 12P
SUB 5V
D GND
RESET
MCCS
PIOCS
SCK
SDTX
SDRX
SIRCS
CONTROLS
D GND
5VD
TO A BOARD CN5
Q101 DTC144EKA SW
Q102 DTC144EKA SW
Q103 DTC114
IC102 MC68HC05P7B SIRCS-DECODER SUB CPU
IC103 CXP2003M-T2 LED DRIVE
IC104 CXP2003M-T2 LED DRIVE
IC105 SBX8025 SIRCS RECEIVER
D149 MA111 PROTECT
D113 1SS226
D114 1SS226
D115 1SS226
D116 1SS226
D117 1SS226
D118 1SS226
D119 1SS226
D128 CL-170D LED
D129 CL-170D LED
D130 CL-170D LED
D131 CL-170D LED
D132 CL-170D LED
D133 CL-170D LED
D134 CL-170D LED
D135 CL-170D LED
D136 CL-170D LED
D137 CL-170D LED
D138 CL-170D LED
D139 CL-170D LED
D140 CL-170D LED
D141 CL-170D LED
D169 CL-170D LED
D142 CL-170YG LED
D143 CL-170D LED
D144 CL-170D LED
D145 CL-170D LED
D147 CL-170D LED
D148 CL-170D LED
D120 MA111
D121 MA111
D122 MA111
D123 MA111
D124 MA111
D125 MA111
D126 MA111
S101
S102
S103
S104
S105
PWR
DSP
TST
LD
OUT
IN1
IN2
IN3
IN4
IN5
IN6
IN7
OU1
OU2
OU3
OU4
OU5
OU6
GEN1
GEN2
IN
OUT
+5V
5V
5V-2
L101 47μH

(15) K2 Board (VIDEO IN/OUT, VIDEO INTER FACE)



1-659-662-14
SONY
H1

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.



A-1372-961
SONY
H

- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.

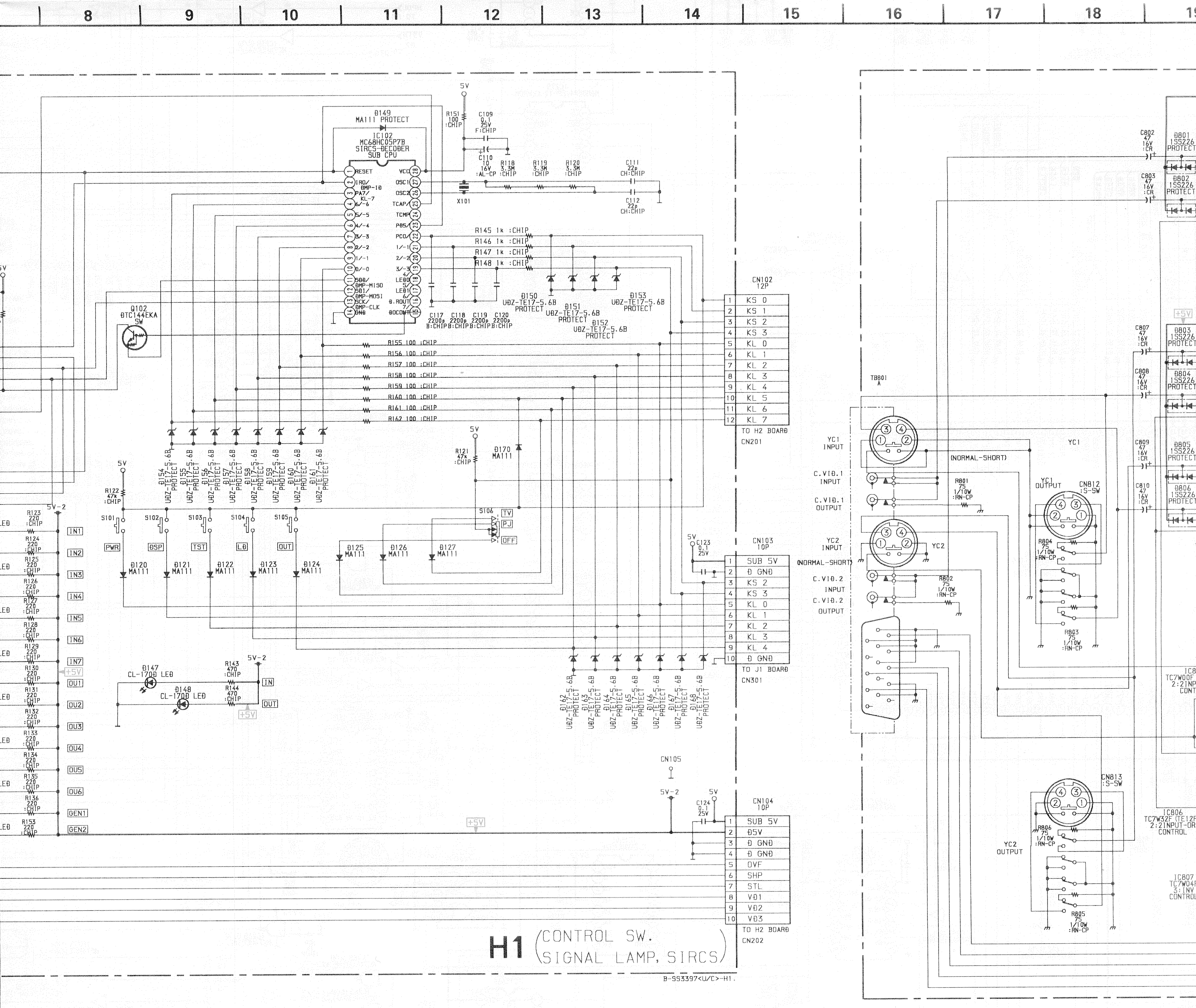
- **H1 BOARD SEMICONDUCTOR LOCATION**

Ref.	*
Q101, Q103	①
Q102	②
D113–D117	⑦
D118, D119	⑥
D120–D145, D147–D170	③

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 25)

- **K2 BOARD VOLTAGE LIST**

Ref.	Pin No.	Voltage [V]
IC801	1	1.4
	2	0
	3	1.5
	4	5.0
	5	1.4
	6	5.0
	7	1.2
IC802	1	1.4
	2	0
	3	1.5
	4	5.0
	5	1.4
	6	5.0
	7	1.2
IC803	1	2.8
	2	0
	3	2.8
	4	4.9
	5	2.8
	6	5.0
	7	2.0
IC804	1	0
	2	0
	3	5.0
	5	0
	6	0
	7	5.0
IC805	1	0
	2	5.0
	3	0
	5	0
	6	0
	7	5.0
IC806	1	0
	2	0
	3	5.0
	5	5.0
	6	4.8
	7	4.9
IC807	1	0
	2	0
	3	5.0
	5	0
	6	0
	7	5.0
IC808	1	3.6
	2	0.1
	3	3.6
	5	3.6
	7	0
	9	0
	11	0
	14	0
	15	2.1
	16	4.8
	17	0
	18	2.5
	19	2.1
	20	5.0
	21	2.1
	22	0
Q801	B	N0
	C	M't
	E	



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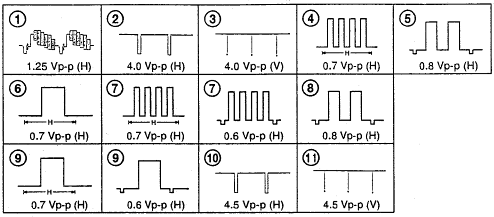
IC102
MC68HC05P7B
SIRCS-DECODER
SUB CPU
D149 MA111 PROTECT
Q102 DTC144EKA SW
X101
CN102 12P
KS 0
KS 1
KS 2
KS 3
KL 0
KL 1
KL 2
KL 3
KL 4
KL 5
KL 6
KL 7
TO H2 BOARD CN201
CN103 10P
SUB 5V
D GND
TO J1 BOARD CN301
CN104 10P
D5V
OVF
SHP
STL
VD1
VD2
VD3
TO H2 BOARD CN202
CN105
S101 PWR
S102 DSP
S103 TST
S104 LB
S105 OUT
S106 TV PJ OFF
D147 CL-170B LED
D148 CL-170B LED
IN
OUT
GEN1
GEN2
5V
5V-2
+5V
YC1 INPUT
C.VID.1 INPUT
C.VID.1 OUTPUT
YC2 INPUT
C.VID.2 INPUT
C.VID.2 OUTPUT
(NORMAL-SHORT)
YC1 OUTPUT
CN812 :S-SW
CN813 :S-SW
YC2 OUTPUT
TB801
IC806 TC7W32F (TE12F) 2:2INPUT-OR CONTROL
IC807 TC7W04F
B-SS3397<U/C>-H1.

H1 (CONTROL SW. SIGNAL LAMP, SIRCS)

• K2 BOARD WAVEFORMS

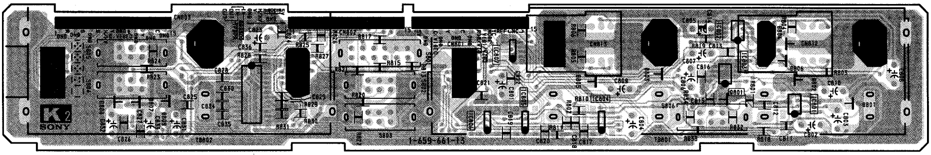

①
1.25 Vp-p (H)
②
4.0 Vp-p (H)
③
4.0 Vp-p (V)
④
0.7 Vp-p (H)
⑤
0.8 Vp-p (H)
⑥
0.7 Vp-p (H)
⑦
0.7 Vp-p (H)
⑦
0.6 Vp-p (H)
⑧
0.8 Vp-p (H)
⑨
0.7 Vp-p (H)
⑨
0.6 Vp-p (H)
⑩
4.5 Vp-p (H)
⑪
4.5 Vp-p (V)

• K2 BOARD SEMICONDUCTOR LOCATION

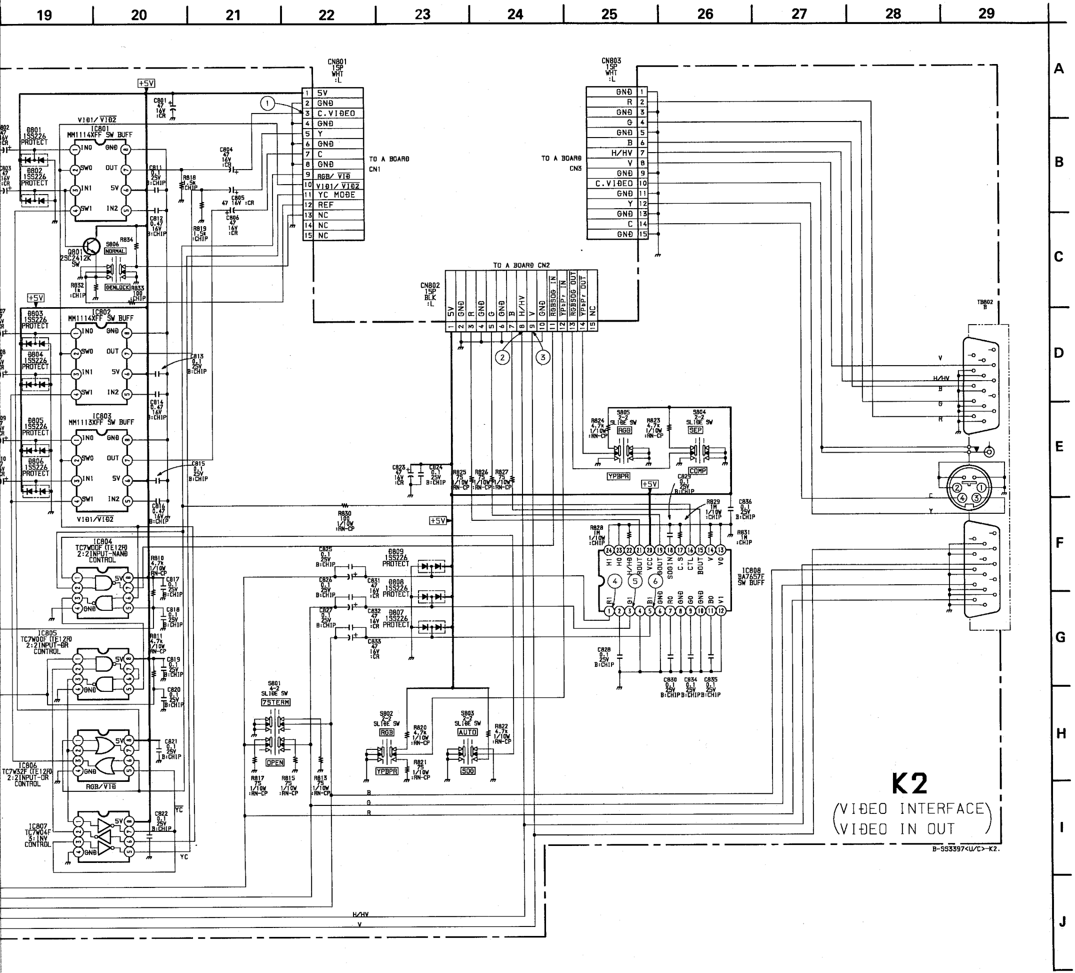
Ref.	*
Q801	①
D801–D809	⑥

***: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 25)**

— K2 BOARD —


K2
SONY
1-659-661-13
CN803
CN802
TB802
TB801

- ▒ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.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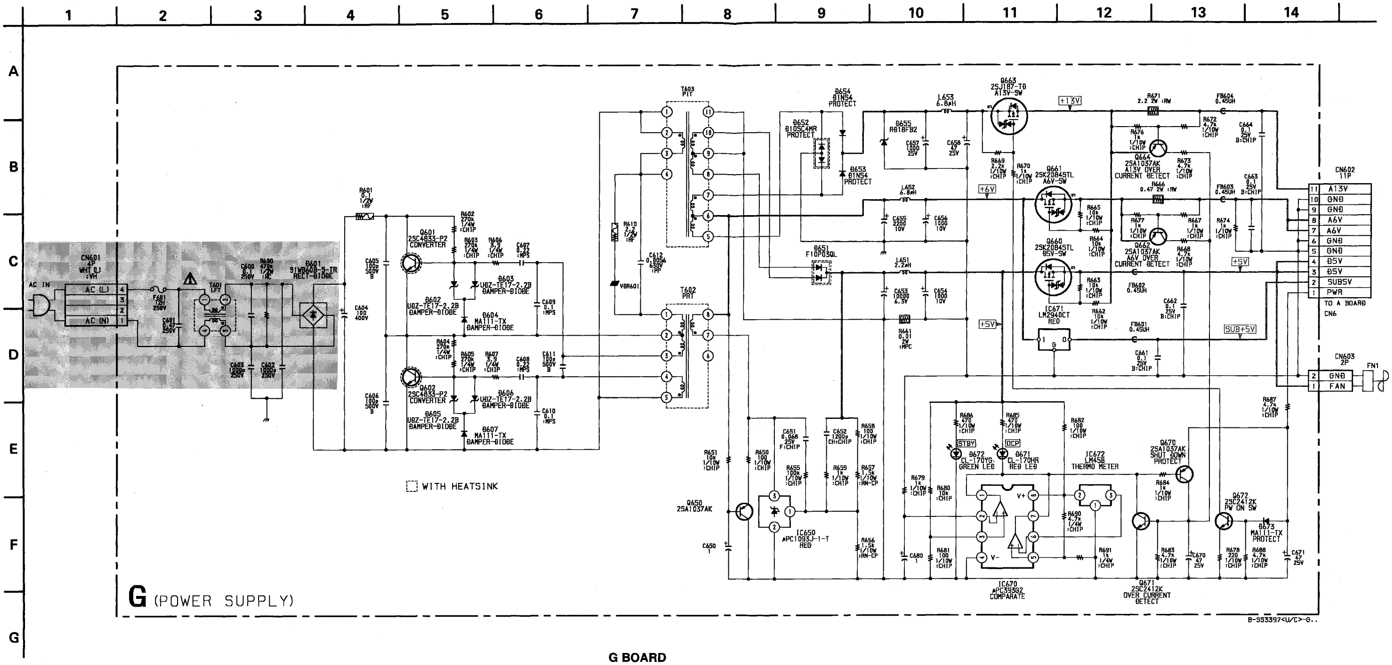
J
CN801 15P WHT :L
5V
GND
C.VIDEO
GND
Y
GND
C
GND
RGB/ VIĐ
VI01/ VI02
YC MODE
REF
NC
NC
NC
TO A BOARD CN1
CN803 15P WHT :L
GND
R
GND
G
GND
B
H/HV
V
GND
C.VIDEO
GND
Y
GND
C
GND
TO A BOARD CN3
TO A BOARD CN2
CN802 15P BLK :L
5V
GND
R
GND
G
GND
B
H/HV
V
GND
RGBSOG IN
YPbPr IN
RGBSOG OUT
YPbPr OUT
NC
IC801 MM1114XFF SW BUFF
IC802 MM1114XFF SW BUFF
IC803 MM1113XFF SW BUFF
IC804 TC7W00F (TE12R) 2:2INPUT-NAND CONTROL
IC805 TC7W00F (TE12R) 2:2INPUT-OR CONTROL
IC806 TC7W32F (TE12R) 2:2INPUT-OR CONTROL
IC807 TC7W04F 3:INV CONTROL
IC808 BA7657F SW BUFF
Q801 2SC2412K SW
D801 1SS226 PROTECT
D802 1SS226 PROTECT
D803 1SS226 PROTECT
D804 1SS226 PROTECT
D805 1SS226 PROTECT
D806 1SS226 PROTECT
D807 1SS226 PROTECT
D808 1SS226 PROTECT
D809 1SS226 PROTECT
S801 4-2 SLIDE SW 75TERM OPEN
S802 2-2 SLIDE SW RGB YPBPR
S803 2-2 SLIDE SW AUTO SOG
S804 2-2 SLIDE SW SEP COMP
S805 2-2 SLIDE SW RGB YPBPR
S806 NORMAL GENLOCK
TB802 B
+5V
V
H/HV
B
G
R
C
Y
YC
RGB/VIĐ
VI01/VI02

K2
(VIDEO INTERFACE)
(VIDEO IN OUT)

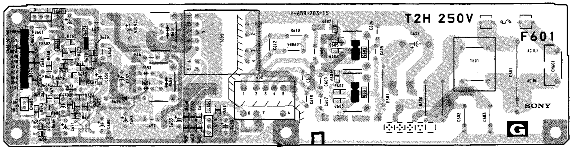
B-SS3397<U/C>-K2.

(11) G Board (POWER SUPPLY)

G [POWER SUPPLY]


1
2
3
4
5
6
7
8
9
10
11
12
13
14
A
B
C
D
E
F
G
AC IN
CN601 4P WHT(L) :VH
AC (L)
AC (N)
F601 T2H 250V
T601 LFT
D601 S1WB60B-9-TR RECT-DIODE
Q601 2SC4833-P2 CONVERTER
Q602 2SC4833-P2 CONVERTER
T603 PIT
T602 PRT
D652 D1OSC4MR PROTECT
D653 D1NS4 PROTECT
D654 D1NS4 PROTECT
D651 F10P03QL
Q663 2SJ187-TD A13V-SW
Q661 2SK2084STL A6V-SW
Q660 2SK2084STL D5V-SW
Q664 2SA1037AK A13V OVER CURRENT DETECT
Q662 2SA1037AK A6V OVER CURRENT DETECT
IC671 LM2940CT REG
+13V
+6V
+5V
SUB+5V
CN602 11P
A13V
GND
GND
A6V
A6V
GND
GND
D5V
D5V
SUB5V
PWR
TO A BOARD CN6
CN603 2P
GND
FAN
FN1
IC650 μPC1093J-1-T REG
Q650 2SA1037AK
D672 CL-170YG GREEN LED
D671 CL-170HR RED LED
STBY
OCP
IC672 LM45B THERMO METER
IC670 μPC393G2 COMPARATE
Q671 2SC2412K OVER CURRENT DETECT
Q670 2SA1037AK SHUT DOWN PROTECT
Q672 2SC2412K PW ON SW
D673 MA111-TX PROTECT
WITH HEATSINK
G (POWER SUPPLY)
B-593397<U/C>-0..

— G BOARD (Conductor side) —


T2H 250V
F601
SONY
G
1-659-703-15

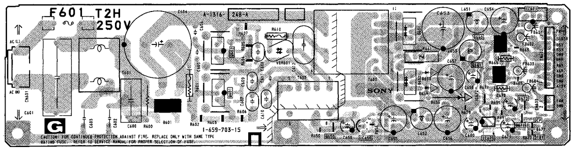
- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

G BOARD
Terminal name of semiconductors in silk screen printed circuit (*)

Ref.	*
Q650, Q670, Q671	②
Q660, Q661	⑫
Q663	⑭
Q662, Q664, Q672	①
D602–D607, D671–D673	③

*: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 25)

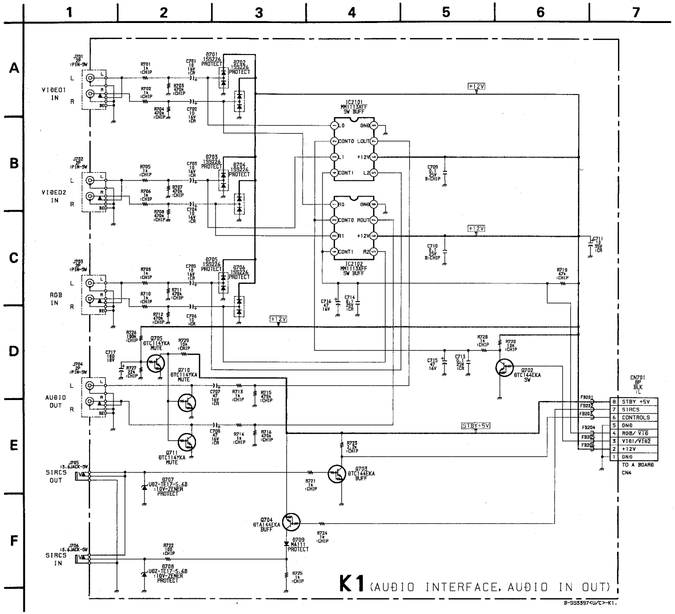
— G BOARD (Component side) —


F601 T2H 250V
G
SONY
1-659-703-15

- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

(14) K1 Board (AUDIO IN/OUT, AUDIO INTER FACE)

K1 [AUDIO INTER FACE / AUDIO IN OUT]


1
2
3
4
5
6
7
A
B
C
D
E
F
VIDEO1 IN
VIDEO2 IN
RGB IN
AUDIO OUT
SIRCS OUT
SIRCS IN
IC2101 MM1113XFF SW BUFF
IC2102 MM1113XFF SW BUFF
Q701 DTC144EKA SW
Q703 DTC144EKA BUFF
Q704 DTA144EKA BUFF
Q705 DTC114YKA MUTE
Q710 DTC114YKA MUTE
Q711 DTC114YKA MUTE
D701–D706 1SS226 PROTECT
D707 UDZ-TE17-5.6B :10V-ZENER PROTECT
D708 UDZ-TE17-5.6B :10V-ZENER PROTECT
D709 MA111 PROTECT
+12V
STBY+5V
CN701 8P BLK :L
8 STBY +5V
7 SIRCS
6 CONTROLS
5 GND
4 RGB/VID
3 VID1/VID2
2 +12V
1 GND
TO A BOARD CN4
K1 (AUDIO INTERFACE, AUDIO IN OUT)
B-SS3397<U/C>-K1.

• **K1 BOARD VOLTAGE LIST**

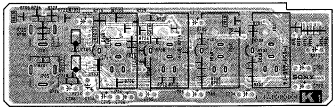
Ref.	Pin No.	Voltage [V]	Ref.	Pin No.	Voltage [V]
IC2101	1 2 3 4 5 7	6.7 0 6.7 4.8 6.7 6.0	Q703	B C E	0 5.0 0
			Q704	B C	5.0 -0.1
IC2102	1 2 3 4 5 7	6.7 0 6.7 4.8 6.7 6.0	Q705	B C E	0 -0.4 0
			Q706	B C E	0 0.8 0
Q701	B C E	4.8 0 0	Q710	B C E	0.8 0.8 0
Q702	B C E	0 0 0	Q711	B C E	0.8 0.8 0.1

K1 BOARD
Terminal name of semiconductors in silk screen printed circuit (∗)

Ref.	∗
Q702–Q705, Q710, Q711	①
D701–D706	⑥
D707–D709	③

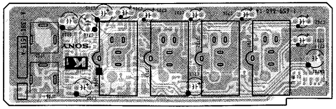
∗: Refer to Terminal name of semiconductors in silk screen printed circuit (see page 25)

— K1 BOARD (Conductor side) —



- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

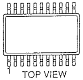
— K1 BOARD (Component side) —



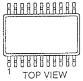
- ░ : Pattern from the side which enables seeing.
- ▒ : Pattern of the rear side.

3-6. SEMICONDUCTORS

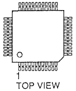
BA7046F
BA7046F-T1
CXA1211M
CXA1211M-T4
LM1881M
LM1881MX
LM358PS
LM358PS-E05
MM1113XFF
MM1114XFF
MM1170BFB
MM118XFF
NJM245M
TC4W53FU
TC7W00FU
TC7W02FU
TC7W04F
TC7W32F
μPC393G2



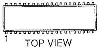
BA7657F-E2
CXA1645M
CXA1645M-T6
CXP2003M
NJU3716M
SNY422-SONY
μPC659AGS-E2



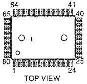
BT121KPJ80
CXD2302Q
CXD2302Q-T4



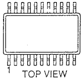
CX7916



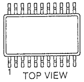
CXD2024AQ
CXD303-105Q


64
41
65
40
80
25
1
24
TOP VIEW

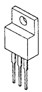
HM530281RTT-20
HM530281-20
μPC1830GT-E2
μPC1862GS-E2
μPD23C8000WGX-38B-E2



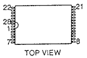
ICS9161A
KS6369-20AP
MAX202CSE
MC74HC08AF
MC74HC08AF-T2
MC74HC4051F
MC74HC4051F-T2
MC74HC4052F
MC74HC4052F-T2
MC74HC4053F
MC74HC4053F-T2
MC74HC4538F
MC74HC4538AF-T2
TC74AC157F-EL
TC74HC123AF
TC74HC123AF(EL)
TC74HC153AF
TC74HC153AF(EL)
TC74HC163AF
TC74HC163AF(EL)
TC74VHC157F
TC74VHC157F(EL)
TDA4665T-T



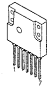
LM2940CT-5.0
LM2940CT-12
μPC24M12AHF
μPC2405HF



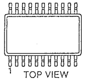
MC68HC05P6SC
MC68HC05P7BSC


22
21
28
1
7
8
TOP VIEW

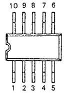
MC74HC244AF
MC74HC244AF-T2
M52036SP
M62352GP-75E
M62352GP-75EC
SN74ABT540NS-E05
SN74ABT574NS-E05
TC74VHC574F
TC74VHC574F(EL)



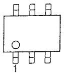
MC74HC00AF
MC74HC00AF-T2
MC74HC04AF
MC74HC04AF-T2
MC74HC11F
MC74HC11F-T2
MC74HC132AF
MC74HC132AF-T2
MC74HC14AF
MC74HC14AF-T2
MC74HC4078F
MC74HC4078FEL
SN74HC14ANS
TC74HC393AF
TC74VHC00F
TC74VHC74F
TLC2932IPW



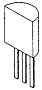
M6M80041FP
M6M80041FP-T2


10 9 8 7 6
1 2 3 4 5

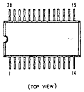
TC4S69F



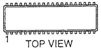
μPC1093J
μPC1093J-1-T



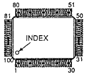
μPD42280GU-30
μPD42280GU-30-E2


28
15
1
14
(TOP VIEW)

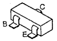
μPD485505G-25



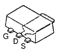
μPD6486GT-3BA
CXD305-114Q


80
51
81
50
INDEX
100
31
1
30

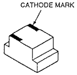
DTA114EKA-T146
DTA124EKA-T146
DTA144EKA-T146
DTC114YKA-T146
DTC124EK
DTC124EKA-T146
DTC144EKA-T146
2SA1037K-T146-R
2SA1037AK-T-146-R
2SA1037AK-T-146-QR
2SA1162-G
2SC1623-L5L6
2SC2412K-QR
2SC2412K-T-146Q
2SC2412K-T-146S



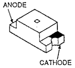
2SJ187
2SJ238



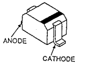
CL-170D-CD-T
CL-170VQ-CD-T


CATHODE MARK

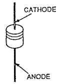
CL-170MR-CD-T


ANODE
CATHODE

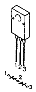
DTZ4.7C
MA111
RD12S-B2
RD4.7S-B
RD5.6S-B
UDZ-TE-17-12B
UDZ-TE-17-2.2B
UDZ-TE-17-4.7B
UDZ-TE-17-5.6B


ANODE
CATHODE

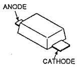
D1NB4


CATHODE
ANODE

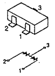
D10SC4MR



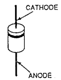
MA77


ANODE
CATHODE

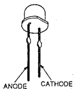
MA157
1SS226



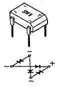
RD2.2M-T1B
RD18FB2


CATHODE
ANODE

SLR-33DC3F


ANODE
CATHODE

S1WB60B-S-TR



SECTION 4
EXPLODED VIEWS

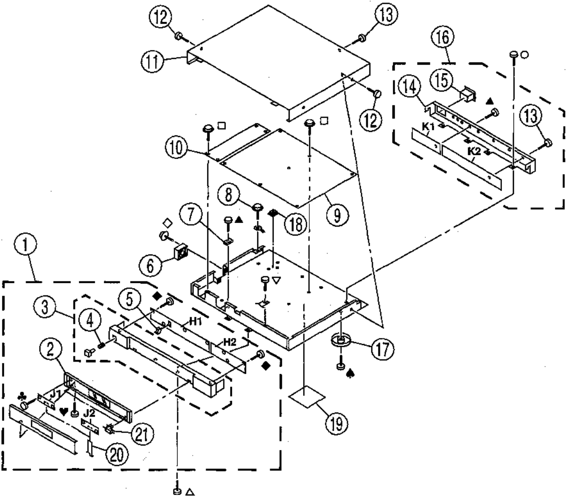
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

4-1. CHASSIS

▽	7-682-548-04	+B 3X8
□	7-682-949-01	+PSW 3X10
◇	7-682-652-09	+PSW 3X16
▲	7-685-646-79	+BVTP 3X8
◆	7-685-647-79	+BVTP 3X10
○	7-682-145-01	+P 3X4
△	7-682-248-04	+K 3X8
♠	7-685-872-09	+BVTT 3X8
♥	7-627-850-67	PRECISION +P1.4X4
♣	7-685-232-19	+KTP 2.6X5

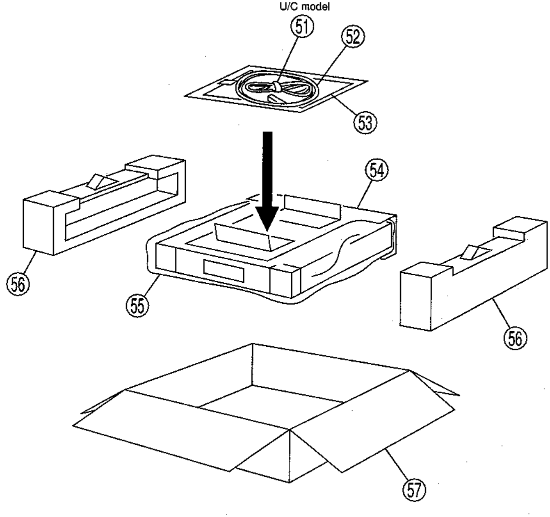


REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*8-933-257-00	FRONT BLOCK ASSY (H1/H2, J1/J2 BOARDS)	2-5, 20, 21
2	X-4033-528-1	PANEL ASSY, DOOR	
3	X-4034-592-1	PANEL ASSY, FRONT	4
4	3-571-801-01	SPRING, COMPRESSION	
5	4-052-854-01	KNOB, SWITCH	
6	1-698-756-11	MOTOR, DC FAN	
7	*4-053-463-01	HOLDER (S), CORE	
8	4-389-025-01	SCREW (M4) (EXT TOOTH WASHER)	
9	*8-933-255-00	A BOARD, COMPLETE	
10	*8-933-169-00	G BOARD, COMPLETE	
11	*4-052-863-01	COVER, TOP	
12	4-847-802-11	SCREW, CASE STOPPER	
13	3-703-685-21	SCREW (+BV 3X8)	
14	*4-052-857-11	PANEL, BACK	
15	⚠1-251-050-21	INLET, AC	
16	*8-933-256-00	PANEL ASSY (K1/K2 BOARDS)	13-15
17	X-3727-799-1	FOOT ASSY	
18	*4-053-464-01	HOLDER (T), CORE	
19	*4-053-324-11	LABEL, INFORMATION	
20	1-900-219-39	FPC ASSY	
21	4-045-250-01	DAMPER	

4-2. PACKING MATERIALS

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	⚠ 1-534-827-14	CORD, POWER (10A/125V) [U/C model]	
52	1-590-226-11	CABLE (SMF-400)	
53	3-810-657-21	MANUAL, INSTRUCTION	
54	*4-052-714-01	PARTITION	
55	*3-704-295-01	BAG (STANDARD), PROTECTION	
56	*4-052-715-01	CUSHION	
57	*4-058-009-01	INDIVIDUAL CARTON	

SECTION 5
ELECTRICAL PARTS LIST

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NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- CAPACITORS
  MF : µF

REF.NO.	PART NO.	DESCRIPTION	REMARK
	8-933-255-00	A BOARD, COMPLETE ***************************	
	4-382-854-11	SCREW (M3X10), P, SW (+) (IC712, IC713)	
		<CAPACITOR>	
C1	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C2	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C3	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C4	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C5	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C6	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C7	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C8	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C9	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C10	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C11	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C12	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V	
C13	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C14	1-163-231-11	CERAMIC CHIP 15PF 5% 50V	
C15	1-163-231-11	CERAMIC CHIP 15PF 5% 50V	
C16	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C17	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C18	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C19	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C20	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C21	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C22	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C23	1-163-237-11	CERAMIC CHIP 27PF 5% 50V	
C25	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C26	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C27	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C28	1-126-934-11	ELECT 220MF 20% 16V	
C29	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C30	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C31	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C32	1-126-963-11	ELECT 4.7MF 20% 50V	
C33	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C34	1-126-967-11	ELECT 47MF 20% 10V	
C100	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C101	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C102	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C103	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C104	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C105	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C106	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C107	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C108	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C109	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C110	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C111	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C112	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C113	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C140	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C141	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C142	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C150	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C151	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C152	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C153	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C154	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C155	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C156	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C157	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C158	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C159	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C160	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C161	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C162	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C163	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C190	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C191	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C192	1-135-216-11	TANTAL. CHIP 10MF 20% 10V	
C200	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C201	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C202	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C203	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C204	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C205	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C206	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C207	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C208	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C209	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C210	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	
C211	1-164-004-11	CERAMIC CHIP 1.0MF 10% 25V	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C212	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C213	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C214	1-163-220-11	CERAMIC CHIP 3PF	0.25PF 50V
C215	1-102-947-00	CERAMIC 10PF	0.5PF 50V
C240	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C241	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C242	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C250	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C251	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C252	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C253	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C254	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C255	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C256	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C257	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C259	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C260	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C261	1-126-964-11	ELECT 10MF	20% 50V
C262	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C317	1-107-701-11	ELECT 47MF	20% 16V
C318	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C319	1-107-701-11	ELECT 47MF	20% 16V
C320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C321	1-107-701-11	ELECT 47MF	20% 16V
C322	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C323	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C325	1-104-396-11	ELECT 10MF	20% 16V
C327	1-104-396-11	ELECT 10MF	20% 16V
C329	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C330	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C331	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
C332	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C333	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
C335	1-126-960-11	ELECT 1MF	20% 50V
C336	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C337	1-126-960-11	ELECT 1MF	20% 50V
C338	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C339	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C340	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C341	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C342	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C343	1-126-967-11	ELECT 47MF	20% 16V
C344	1-126-967-11	ELECT 47MF	20% 16V
C345	1-126-967-11	ELECT 47MF	20% 16V
C346	1-126-961-11	ELECT 2.2MF	20% 50V
C347	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C348	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C349	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C350	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C351	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C352	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C353	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C354	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C356	1-126-934-11	ELECT 220MF	20% 16V
C357	1-126-960-11	ELECT 1MF	20% 50V
C358	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C359	1-126-963-11	ELECT 4.7MF	20% 50V
C360	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C361	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C362	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C363	1-126-956-91	ELECT 0.1MF	20% 50V
C364	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C365	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C366	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C367	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C368	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
C369	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C370	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C371	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C372	1-126-965-11	ELECT 22MF	20% 50V
C374	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C378	1-107-716-11	ELECT 33MF	20% 16V
C379	1-107-716-11	ELECT 33MF	20% 16V
C380	1-107-716-11	ELECT 33MF	20% 16V
C381	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C382	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C383	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C384	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C385	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C386	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C387	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C388	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C389	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C390	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C391	1-126-963-11	ELECT 4.7MF	20% 50V
C392	1-126-964-11	ELECT 10MF	20% 50V
C393	1-126-933-11	ELECT 100MF	20% 16V
C394	1-126-960-11	ELECT 1MF	20% 50V
C395	1-126-960-11	ELECT 1MF	20% 50V
C396	1-126-964-11	ELECT 10MF	20% 50V
C401	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C402	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C403	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C404	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C405	1-135-216-11	TANTAL. CHIP 10MF	20% 10V
C406	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C501	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C502	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C503	1-126-933-11	ELECT 100MF	20% 16V
C504	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C505	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C506	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C507	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C508	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C509	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C510	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C511	1-126-933-11	ELECT 100MF	20% 16V
C512	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C513	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C514	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C515	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V

REF.NO.	PART NO.	DESCRIPTION		REMARK	
C516	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C517	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C518	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C520	1-126-933-11	ELECT	100MF	20%	16V
C521	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C522	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C523	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C524	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C525	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C526	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C527	1-126-934-11	ELECT	220MF	20%	16V
C528	1-126-934-11	ELECT	220MF	20%	16V
C529	1-126-934-11	ELECT	220MF	20%	16V
C530	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C531	1-104-664-11	ELECT	47MF	20%	25V
C532	1-104-664-11	ELECT	47MF	20%	25V
C533	1-126-960-11	ELECT	1MF	20%	50V
C534	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V
C535	1-126-964-11	ELECT	10MF	20%	50V
C536	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C538	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C539	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C540	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C541	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C542	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C543	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C544	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C545	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C546	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C547	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C548	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C549	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C550	1-126-934-11	ELECT	220MF	20%	16V
C551	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C552	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C553	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C555	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C556	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C557	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C558	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C559	1-104-664-11	ELECT	47MF	20%	25V
C561	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C562	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C563	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C564	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C565	1-126-963-11	ELECT	4.7MF	20%	50V
C566	1-109-889-11	ELECT	1MF	20%	50V
C567	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C568	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C569	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C570	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C571	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C572	1-126-934-11	ELECT	220MF	20%	16V
C573	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C574	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C600	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V

REF.NO.	PART NO.	DESCRIPTION		REMARK	
C601	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C602	1-104-664-11	ELECT	47MF	20%	25V
C603	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C604	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C605	1-104-664-11	ELECT	47MF	20%	25V
C606	1-104-664-11	ELECT	47MF	20%	25V
C607	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C608	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C609	1-126-967-11	ELECT	47MF	20%	16V
C610	1-126-967-11	ELECT	47MF	20%	16V
C611	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C612	1-126-967-11	ELECT	47MF	20%	16V
C613	1-126-967-11	ELECT	47MF	20%	16V
C614	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C615	1-126-967-11	ELECT	47MF	20%	16V
C616	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C617	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C618	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C619	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C701	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C702	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C703	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C704	1-126-934-11	ELECT	220MF	20%	16V
C705	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C707	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C708	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C709	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C710	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C711	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C712	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C713	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C714	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C715	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C716	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C717	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C718	1-126-934-11	ELECT	220MF	20%	16V
C720	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C721	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C722	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C723	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C724	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C725	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C726	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C727	1-126-933-11	ELECT	100MF	20%	16V
C728	1-104-653-11	ELECT	220MF	20%	16V
C729	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C730	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C731	1-126-934-11	ELECT	220MF	20%	16V
C732	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C733	1-126-934-11	ELECT	220MF	20%	16V
C734	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C735	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C736	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C737	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C738	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C739	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C740	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C741	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C742	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C743	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C744	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C745	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C746	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C747	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C748	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C749	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C750	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C751	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C752	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C753	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C754	1-126-933-11	ELECT 100MF	20% 16V
C755	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C756	1-128-526-11	ELECT 100MF	20% 16V
C757	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C758	1-163-257-11	CERAMIC CHIP 180PF	5% 50V
C759	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C761	1-126-933-11	ELECT 100MF	20% 16V
C762	1-126-933-11	ELECT 100MF	20% 16V
C763	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C764	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C765	1-126-934-11	ELECT 220MF	20% 16V
C766	1-163-222-11	CERAMIC CHIP 5PF	0.25PF 50V
C767	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C768	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C769	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C770	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C771	1-126-933-11	ELECT 100MF	20% 16V
C772	1-126-933-11	ELECT 100MF	20% 16V
C773	1-126-933-11	ELECT 100MF	20% 16V
C774	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C775	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C776	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C777	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C778	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C781	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C784	1-126-956-91	ELECT 0.1MF	20% 50V
C785	1-126-964-11	ELECT 10MF	20% 50V
C787	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C788	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C790	1-126-934-11	ELECT 220MF	20% 16V
C791	1-126-934-11	ELECT 220MF	20% 16V
C792	1-126-934-11	ELECT 220MF	20% 16V
C794	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C795	1-126-767-11	ELECT 1000MF	20% 16V
C796	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C797	1-126-767-11	ELECT 1000MF	20% 16V
C798	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C799	1-126-767-11	ELECT 1000MF	20% 16V
C800	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C801	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C802	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C803	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C804	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C805	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C806	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C807	1-126-933-11	ELECT 100MF	20% 16V
C808	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C809	1-126-933-11	ELECT 100MF	20% 16V
C810	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C811	1-126-933-11	ELECT 100MF	20% 16V
C812	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C813	1-126-934-11	ELECT 220MF	20% 16V
C814	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C815	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C816	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C817	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C818	1-126-934-11	ELECT 220MF	20% 16V
C819	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C820	1-126-934-11	ELECT 220MF	20% 16V
C821	1-126-934-11	ELECT 220MF	20% 16V
C822	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C823	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C824	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C825	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C826	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C827	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C828	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C829	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C830	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C831	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C832	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C833	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C834	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C835	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C836	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C837	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C838	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C839	1-163-131-00	CERAMIC CHIP 390PF	5% 50V
C840	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C841	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C842	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C843	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C844	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C845	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1001	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1002	1-126-967-11	ELECT 47MF	20% 16V
C1003	1-126-967-11	ELECT 47MF	20% 16V
C1004	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1005	1-126-967-11	ELECT 47MF	20% 16V
C1006	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C1007	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1008	1-163-253-11	CERAMIC CHIP 120PF	5% 50V
C1009	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1010	1-126-964-11	ELECT 10MF	20% 50V
C1011	1-107-698-11	ELECT 10MF	20% 25V
C1012	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1013	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1014	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
C1015	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1016	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1017	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1018	1-126-933-11	ELECT 100MF	20% 10V
C1019	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1020	1-126-967-11	ELECT 47MF	20% 16V
C1021	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1023	1-126-967-11	ELECT 47MF	20% 16V
C1024	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1025	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1026	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1027	1-164-346-11	CERAMIC CHIP 1MF	16V
C1028	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1029	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1030	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1031	1-126-967-11	ELECT 47MF	20% 16V
C1032	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1033	1-126-967-11	ELECT 47MF	20% 16V
C1034	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1035	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1036	1-126-967-11	ELECT 47MF	20% 16V
C1037	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1038	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1039	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1040	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1041	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1042	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1043	1-126-967-11	ELECT 47MF	20% 16V
C1044	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1045	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1046	1-126-967-11	ELECT 47MF	20% 16V
C1047	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1048	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1049	1-126-964-11	ELECT 10MF	20% 50V
C1050	1-163-091-00	CERAMIC CHIP 8PF	0.25PF 50V
C1051	1-126-967-11	ELECT 47MF	20% 16V
C1052	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1053	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1054	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1055	1-126-967-11	ELECT 47MF	20% 16V
C1056	1-126-964-11	ELECT 10MF	20% 50V
C1057	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1058	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1059	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1060	1-164-346-11	CERAMIC CHIP 1MF	16V
C1061	1-126-960-11	ELECT 1MF	20% 50V
C1062	1-126-967-11	ELECT 47MF	20% 16V
C1063	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1064	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C1065	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1066	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1067	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1068	1-126-967-11	ELECT 47MF	20% 16V
C1069	1-126-967-11	ELECT 47MF	20% 16V
C1070	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C1071	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C1072	1-126-964-11	ELECT 10MF	20% 50V
C1073	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1074	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C1075	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1076	1-126-964-11	ELECT 10MF	20% 50V
C1077	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1078	1-126-960-11	ELECT 1MF	20% 50V
C1079	1-126-960-11	ELECT 1MF	20% 50V
C1080	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1081	1-126-967-11	ELECT 47MF	20% 16V
C1082	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1083	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1084	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1085	1-126-959-11	ELECT 0.47MF	20% 50V
C1086	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1087	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1088	1-126-963-11	ELECT 4.7MF	20% 50V
C1090	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1091	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V
C1092	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1093	1-126-967-11	ELECT 47MF	20% 16V
C1094	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1095	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C1096	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1097	1-126-967-11	ELECT 47MF	20% 16V
C1098	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1099	1-126-967-11	ELECT 47MF	20% 16V
C1100	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1101	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1102	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1103	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C1104	1-163-145-00	CERAMIC CHIP 0.0015MF	5% 50V
C1105	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C1106	1-126-963-11	ELECT 4.7MF	20% 50V
C1107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1108	1-126-967-11	ELECT 47MF	20% 16V
C1109	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1301	1-126-965-11	ELECT 22MF	20% 50V
C1302	1-126-965-11	ELECT 22MF	20% 50V
C1303	1-126-965-11	ELECT 22MF	20% 50V
C1304	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C1305	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
C1306	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
C1307	1-126-964-11	ELECT 10MF	20% 50V
C1308	1-126-964-11	ELECT 10MF	20% 50V
C1309	1-126-964-11	ELECT 10MF	20% 50V
C1310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1311	1-126-967-11	ELECT 47MF	20% 16V
C1313	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1314	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1315	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1319	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1320	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1500	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1501	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V
C1502	1-164-004-11	CERAMIC CHIP 1.0MF	10% 25V

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REF.NO.	PART NO.	DESCRIPTION		REMARK	
C1503	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1504	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1505	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1506	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1507	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C1508	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1509	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1511	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1512	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1513	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C1514	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1515	1-126-967-11	ELECT	47MF	20%	16V
C1516	1-163-253-11	CERAMIC CHIP	120PF	5%	50V
C1517	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1519	1-126-967-11	ELECT	47MF	20%	16V
C1520	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1521	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C1522	1-126-960-11	ELECT	1MF	20%	50V
C1523	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1525	1-126-960-11	ELECT	1MF	20%	50V
C1526	1-126-967-11	ELECT	47MF	20%	16V
C1527	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C1528	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1529	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1530	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1531	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1532	1-126-967-11	ELECT	47MF	20%	16V
C1533	1-126-967-11	ELECT	47MF	20%	16V
C1534	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1535	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1536	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1537	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1538	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1540	1-126-963-11	ELECT	4.7MF	20%	50V
C1542	1-126-959-11	ELECT	0.47MF	20%	50V
C1543	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1544	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1546	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1547	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1548	1-126-963-11	ELECT	4.7MF	20%	50V
C1549	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C1550	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1551	1-126-967-11	ELECT	47MF	20%	16V
C1552	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1553	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1554	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1557	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1558	1-126-960-11	ELECT	1MF	20%	50V
C1559	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1560	1-126-960-11	ELECT	1MF	20%	50V
C1561	1-164-695-11	CERAMIC CHIP	0.0022MF	5%	50V
C1562	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C1563	1-126-967-11	ELECT	47MF	20%	16V
C1564	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1566	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1567	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1568	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1571	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1572	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1573	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1574	1-164-004-11	CERAMIC CHIP	1.0MF	10%	25V
C1575	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1576	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1577	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1578	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1579	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1580	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1584	1-136-165-00	FILM	0.1MF	5%	50V
C1585	1-136-165-00	FILM	0.1MF	5%	50V
C1586	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1587	1-126-934-11	ELECT	220MF	20%	16V
C1588	1-126-934-11	ELECT	220MF	20%	16V
		<CONNECTOR>			
CN1	1-506-480-11	PIN, CONNECTOR 15P			
CN2	1-506-480-11	PIN, CONNECTOR 15P			
CN3	1-506-480-11	PIN, CONNECTOR 15P			
CN4	1-764-080-21	PIN, CONNECTOR (PC BOARD) 8P			
CN5	* 1-695-890-21	PIN, CONNECTOR (PC BOARD) 12P			
CN6	* 1-568-788-21	PIN, CONNECTOR 11P			
CN7	* 1-564-948-21	PIN, CONNECTOR 3P			
CN252	1-750-628-11	SOCKET, DIN 8P			
		<TRIMMER>			
CT1500	1-141-370-11	CAP, CHIP TRIMMER 50PF			
CT1501	1-141-368-11	CAP, CHIP TRIMMER 30PF			
		<TRIMMER>			
CV200	1-141-322-11	CAP, CHIP TYPE TRIMMER 20PF			
CV201	1-141-322-11	CAP, CHIP TYPE TRIMMER 20PF			
		<DIODE>			
D1	8-719-033-86	DIODE CL-170D-CD-T			
D16	8-719-158-49	ZENER DIODE RD12SB2			
D17	8-719-158-49	ZENER DIODE RD12SB2			
D18	8-719-158-49	ZENER DIODE RD12SB2			
D19	8-719-158-49	ZENER DIODE RD12SB2			
D20	8-719-158-49	ZENER DIODE RD12SB2			
D21	8-719-158-49	ZENER DIODE RD12SB2			
D22	8-719-158-49	ZENER DIODE RD12SB2			
D23	8-719-158-49	ZENER DIODE RD12SB2			
D306	8-719-800-76	DIODE 1SS226			
D308	8-719-800-76	DIODE 1SS226			
D310	8-719-800-76	DIODE 1SS226			
D312	8-719-800-76	DIODE 1SS226			
D314	8-719-800-76	DIODE 1SS226			
D322	8-719-800-76	DIODE 1SS226			
D324	8-719-800-76	DIODE 1SS226			

REF.NO.	PART NO.	DESCRIPTION	REMARK
D326	8-719-800-76	DIODE 1SS226	
D328	8-719-800-76	DIODE 1SS226	
D329	8-719-800-76	DIODE 1SS226	
D330	8-719-800-76	DIODE 1SS226	
D331	8-719-404-49	DIODE MA111	
D332	8-719-800-76	DIODE 1SS226	
D334	8-719-800-76	DIODE 1SS226	
D336	8-719-800-76	DIODE 1SS226	
D337	8-719-159-06	ZENER DIODE RD4.7SB-T2	
D338	8-719-159-06	ZENER DIODE RD4.7SB-T2	
D339	8-719-159-06	ZENER DIODE RD4.7SB-T2	
D340	8-719-159-06	ZENER DIODE RD4.7SB-T2	
D341	8-719-404-49	DIODE MA111	
D342	8-719-404-49	DIODE MA111	
D501	8-719-421-40	DIODE MA77	
D502	8-719-421-40	DIODE MA77	
D503	8-719-421-40	DIODE MA77	
D504	8-719-421-40	DIODE MA77	
D505	8-719-421-40	DIODE MA77	
D506	8-719-421-40	DIODE MA77	
D508	8-719-800-76	DIODE 1SS226	
D510	8-719-800-76	DIODE 1SS226	
D512	8-719-800-76	DIODE 1SS226	
D514	8-719-800-76	DIODE 1SS226	
D516	8-719-800-76	DIODE 1SS226	
D518	8-719-800-76	DIODE 1SS226	
D520	8-719-421-40	DIODE MA77	
D521	8-719-421-40	DIODE MA77	
D522	8-719-421-40	DIODE MA77	
D523	8-719-421-40	DIODE MA77	
D524	8-719-421-40	DIODE MA77	
D526	8-719-800-76	DIODE 1SS226	
D528	8-719-800-76	DIODE 1SS226	
D530	8-719-800-76	DIODE 1SS226	
D532	8-719-800-76	DIODE 1SS226	
D534	8-719-800-76	DIODE 1SS226	
D536	8-719-800-76	DIODE 1SS226	
D537	8-719-421-40	DIODE MA77	
D538	8-719-421-40	DIODE MA77	
D539	8-719-421-40	DIODE MA77	
D540	8-719-421-40	DIODE MA77	
D541	8-719-421-40	DIODE MA77	
D542	8-719-421-40	DIODE MA77	
D544	8-719-800-76	DIODE 1SS226	
D546	8-719-800-76	DIODE 1SS226	
D548	8-719-800-76	DIODE 1SS226	
D550	8-719-800-76	DIODE 1SS226	
D552	8-719-800-76	DIODE 1SS226	
D554	8-719-800-76	DIODE 1SS226	
D555	8-719-421-40	DIODE MA77	
D701	8-719-404-49	DIODE MA111	
D702	8-719-404-49	DIODE MA111	
D703	8-719-404-49	DIODE MA111	
D704	8-719-421-40	DIODE MA77	
D705	8-719-421-40	DIODE MA77	
D706	8-719-421-40	DIODE MA77	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D707	8-719-421-40	DIODE MA77	
D708	8-719-421-40	DIODE MA77	
D709	8-719-421-40	DIODE MA77	
D710	8-719-421-40	DIODE MA77	
D711	8-719-421-40	DIODE MA77	
D712	8-719-421-40	DIODE MA77	
D713	8-719-421-40	DIODE MA77	
D714	8-719-421-40	DIODE MA77	
D715	8-719-421-40	DIODE MA77	
D716	8-719-404-49	DIODE MA111	
D717	8-719-404-49	DIODE MA111	
D718	8-719-404-49	DIODE MA111	
D719	8-719-404-49	DIODE MA111	
D720	8-719-404-49	DIODE MA111	
D721	8-719-404-49	DIODE MA111	
D722	8-719-421-40	DIODE MA77	
D723	8-719-421-40	DIODE MA77	
D724	8-719-421-40	DIODE MA77	
D725	8-719-421-40	DIODE MA77	
D726	8-719-421-40	DIODE MA77	
D727	8-719-421-40	DIODE MA77	
D1001	8-719-988-62	DIODE 1SS355	
D1002	8-719-988-62	DIODE 1SS355	
D1501	8-719-404-49	DIODE MA111	
D1502	8-719-421-40	DIODE MA77	

<DELAY LINE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
DL301	1-402-770-11	DELAY LINE	
DL302	1-402-768-11	DELAY LINE	
DL1301	1-402-768-11	DELAY LINE	
DL1302	1-402-768-11	DELAY LINE	

<FERRITE BEAD>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FB1	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB2	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB3	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB4	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB5	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB6	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB7	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB8	1-414-234-11	INDUCTOR, FERRITE BEAD	
FB9	1-500-104-21	BEAD, FERRITE (SMD)	
FB10	1-500-104-21	BEAD, FERRITE (SMD)	
FB11	1-500-104-21	BEAD, FERRITE (SMD)	
FB12	1-500-104-21	BEAD, FERRITE (SMD)	
FB13	1-500-104-21	BEAD, FERRITE (SMD)	
FB14	1-500-104-21	BEAD, FERRITE (SMD)	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
FL501	1-233-554-11	FILTER, LOW PASS	
FL502	1-233-585-11	FILTER, LOW PASS	
FL503	1-233-584-11	FILTER, LOW PASS	
FL504	1-233-583-11	FILTER, LOW PASS	
FL505	1-233-582-11	FILTER, LOW PASS	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
FL506	1-233-581-11	FILTER, LOW PASS	
FL507	1-233-554-11	FILTER, LOW PASS	
FL508	1-233-585-11	FILTER, LOW PASS	
FL509	1-233-584-11	FILTER, LOW PASS	
FL510	1-233-583-11	FILTER, LOW PASS	
FL511	1-233-582-11	FILTER, LOW PASS	
FL512	1-233-581-11	FILTER, LOW PASS	
FL513	1-233-554-11	FILTER, LOW PASS	
FL514	1-233-585-11	FILTER, LOW PASS	
FL515	1-233-584-11	FILTER, LOW PASS	
FL516	1-233-583-11	FILTER, LOW PASS	
FL517	1-233-582-11	FILTER, LOW PASS	
FL518	1-233-581-11	FILTER, LOW PASS	
FL701	1-233-587-11	FILTER, LOW PASS	
FL702	1-233-586-11	FILTER, LOW PASS	
FL703	1-233-587-11	FILTER, LOW PASS	
FL704	1-233-586-11	FILTER, LOW PASS	
FL705	1-233-587-11	FILTER, LOW PASS	
FL706	1-233-586-11	FILTER, LOW PASS	
FL1001	1-239-384-11	FILTER, EMI	
FL1002	1-543-775-11	FILTER, EMI	
FL1003	1-543-775-11	FILTER, EMI	
FL1007	1-414-234-11	INDUCTOR, FERRITE BEAD	
FL1008	1-414-234-11	INDUCTOR, FERRITE BEAD	
FL1009	1-543-775-11	FILTER, EMI	
FL1010	1-543-775-11	FILTER, EMI	
FL1011	1-543-775-11	FILTER, EMI	
FL1012	1-239-847-11	FILTER, LOW PASS	
FL1013	1-239-384-11	FILTER, EMI	
FL1014	1-239-384-11	FILTER, EMI	
FL1015	1-239-847-11	FILTER, LOW PASS	
FL1016	1-239-847-11	FILTER, LOW PASS	
FL1017	1-543-775-11	FILTER, EMI	
FL1500	1-239-384-11	FILTER, EMI	
FL1501	1-239-847-11	FILTER, LOW PASS	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC100	8-759-175-27	IC TC74VHC574F	
IC101	8-759-196-73	IC UPD485505G-25	
IC102	8-759-196-73	IC UPD485505G-25	
IC103	8-759-179-94	IC HM530281-20	
IC104	8-759-179-94	IC HM530281-20	
IC105	8-759-179-94	IC HM530281-20	
IC106	8-759-179-94	IC HM530281-20	
IC107	8-752-375-92	IC CXD303-105Q	
IC108	8-759-175-27	IC TC74VHC574F	
IC150	8-759-175-27	IC TC74VHC574F	
IC151	8-759-196-73	IC UPD485505G-25	
IC152	8-759-196-73	IC UPD485505G-25	
IC153	8-759-179-94	IC HM530281-20	
IC154	8-759-179-94	IC HM530281-20	
IC155	8-759-179-94	IC HM530281-20	
IC156	8-759-179-94	IC HM530281-20	
IC157	8-752-375-92	IC CXD303-105Q	
IC158	8-759-175-27	IC TC74VHC574F	
IC200	8-759-175-27	IC TC74VHC574F	
IC201	8-759-196-73	IC UPD485505G-25	
IC202	8-759-196-73	IC UPD485505G-25	
IC203	8-759-179-94	IC HM530281-20	
IC204	8-759-179-94	IC HM530281-20	
IC205	8-759-179-94	IC HM530281-20	
IC206	8-759-179-94	IC HM530281-20	
IC207	8-752-375-92	IC CXD303-105Q	
IC208	8-759-175-27	IC TC74VHC574F	
IC250	8-752-377-98	IC CXD305-114Q	
IC251	8-759-388-28	IC UPD23C8000WGX-388-E2	
IC252	8-759-459-76	IC HD6433257F-DSCG	
IC253	8-759-162-80	IC MM1170BFB	
IC254	8-759-080-93	IC M6M80041FP	
IC255	8-759-080-93	IC M6M80041FP	
IC256	8-759-080-93	IC M6M80041FP	
IC257	8-759-080-93	IC M6M80041FP	
IC258	8-759-252-59	IC MAX202CSE	
IC259	8-759-032-53	IC MC74HC244AF	
IC260	8-759-032-53	IC MC74HC244AF	
IC261	8-759-032-53	IC MC74HC244AF	
IC262	8-759-032-53	IC MC74HC244AF	
IC263	8-759-032-14	IC MC74HC08AF	
IC264	8-759-362-35	IC ICS9161A-01CW16T	
IC265	8-759-364-08	IC KS6369-20AP	
IC266	8-759-032-32	IC MC74HC132AF	
IC267	8-759-373-60	IC SN74ABT540NS-E05	
IC268	8-759-373-60	IC SN74ABT540NS-E05	
IC269	8-759-032-01	IC MC74HC00AF	
IC270	8-759-186-39	IC TC74VHC74F	
IC271	8-759-186-51	IC TC74VHC157F	
IC272	8-759-295-09	IC TLC2932IPW	
IC273	8-759-032-53	IC MC74HC244AF	
IC274	8-759-032-53	IC MC74HC244AF	
IC275	8-759-477-25	IC SN74ABT574ANS-E20	
IC276	8-759-477-25	IC SN74ABT574ANS-E20	
IC277	8-759-477-25	IC SN74ABT574ANS-E20	
IC278	8-759-373-60	IC SN74ABT540NS-E05	
IC279	8-759-080-93	IC M6M80041FP	
IC280	8-759-186-51	IC TC74VHC157F	
IC300	8-752-053-21	IC CXA1211M	
IC301	8-752-053-21	IC CXA1211M	
IC302	8-759-011-65	IC MC74HC4053F	
IC303	8-759-011-65	IC MC74HC4053F	
IC304	8-759-635-27	IC M62352GP-75E	
IC305	8-759-288-85	IC TDA4665T-T	
IC306	8-759-082-61	IC TC4W53FU	
IC307	8-759-082-61	IC TC4W53FU	
IC308	8-759-082-61	IC TC4W53FU	
IC314	8-759-073-54	IC TC74AC157F-EL	
IC317	8-759-011-64	IC MC74HC4052F	
IC318	8-759-032-11	IC MC74HC04AF	
IC319	8-759-360-07	IC BA7657F-E2	
IC321	8-759-372-18	IC UPC1830GT-E2	
IC322	8-759-177-02	IC NJM2267M(TE2)	
IC501	8-759-011-63	IC MC74HC4051F	
IC502	8-759-635-27	IC M62352GP-75E	

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC503	8-759-637-31	IC M52036SP	
IC504	8-759-983-69	IC LM358PS	
IC505	8-752-070-09	IC CXA1779P	
IC506	8-759-198-31	IC UPC1093J-1-T	
IC507	8-759-007-50	IC MC74HC11F	
IC508	8-759-925-80	IC SN74HC14ANS	
IC509	8-759-198-31	IC UPC1093J-1-T	
IC510	8-759-198-31	IC UPC1093J-1-T	
IC511	8-752-371-18	IC CXD2302Q	
IC512	8-752-371-18	IC CXD2302Q	
IC513	8-752-371-18	IC CXD2302Q	
IC514	8-759-008-40	IC MC74HC4078F	
IC515	8-759-008-40	IC MC74HC4078F	
IC516	8-759-008-40	IC MC74HC4078F	
IC517	8-759-032-53	IC MC74HC244AF	
IC518	8-759-007-56	IC MC74HC30F	
IC519	8-759-007-56	IC MC74HC30F	
IC520	8-759-007-56	IC MC74HC30F	
IC521	8-759-082-61	IC TC4W53FU	
IC522	8-759-008-45	IC MC74HC4538F	
IC701	8-759-348-09	IC SNY422-SONY	
IC702	8-759-011-65	IC MC74HC4053F	
IC703	8-759-369-85	IC BT121KPJ80	
IC704	8-759-240-80	IC TC74HC153AF	
IC705	8-759-011-65	IC MC74HC4053F	
IC707	8-752-068-43	IC CXA1645M	
IC708	8-759-082-55	IC TC7W00FU	
IC710	8-752-070-09	IC CXA1779P	
IC711	8-759-008-45	IC MC74HC4538F	
IC712	8-759-390-38	IC UPC24M12AHF	
IC713	8-759-144-82	IC UPC2405HF	
IC714	8-759-144-82	IC UPC2405HF	
IC715	8-759-082-61	IC TC4W53FU	
IC716	8-759-082-61	IC TC4W53FU	
IC717	8-759-082-61	IC TC4W53FU	
IC718	8-759-433-44	IC MM1031XML	
IC719	8-759-506-22	IC MM1041XM	
IC1001	8-752-372-78	IC CXD2024AQ	
IC1002	8-759-296-51	IC UPD6486GF-3BA	
IC1003	8-759-161-24	IC UPC659AGS-E2	
IC1004	8-759-167-20	IC UPD42280GU-30	
IC1005	8-759-167-20	IC UPD42280GU-30	
IC1006	8-759-287-89	IC MM1113XFF	
IC1007	8-759-287-89	IC MM1113XFF	
IC1008	8-759-011-65	IC MC74HC4053F	
IC1009	8-759-296-53	IC UPC1862GS-E2	
IC1010	8-759-209-57	IC TC4S69F(TE85R)	
IC1500	8-759-186-51	IC TC74VHC157F	
IC1501	8-759-186-51	IC TC74VHC157F	
IC1502	8-759-242-78	IC TC7W02F	
IC1503	8-759-062-66	IC TC7S66F	
IC1504	8-759-987-27	IC LM1881M	
IC1505	8-759-079-80	IC TC74VHC175FS(EL)	
IC1506	8-759-011-65	IC MC74HC4053F	
IC1507	8-759-296-53	IC UPC1862GS-E2	
IC1508	8-759-011-65	IC MC74HC4053F	
IC1509	8-759-079-74	IC TC74VHC157FS(EL)	
IC1510	8-759-164-18	IC MM1118XFF	
IC1512	8-759-514-57	IC BA7046F	
IC1514	8-759-239-55	IC TC74HC123AF	
IC1515	8-759-232-74	IC TC74HC163AF	
IC1516	8-759-186-57	IC TC74VHC175F	
IC1517	8-759-081-42	IC TC74VHC00F	
IC1518	8-759-186-51	IC TC74VHC157F	
IC1519	8-759-232-74	IC TC74HC163AF	
IC1521	8-759-242-70	IC TC7WU04F	
IC1522	8-759-242-70	IC TC7WU04F	
IC1523	8-759-082-55	IC TC7W00FU	
IC1524	8-759-186-51	IC TC74VHC157F	
IC1525	8-759-186-39	IC TC74VHC74F	
IC1526	8-759-038-15	IC MC74HC4538AF	
IC1527	8-759-082-55	IC TC7W00FU	
	<COIL>		
L201	1-410-471-11	INDUCTOR 12UH	
L302	1-410-193-51	INDUCTOR CHIP 1.2UH	
L303	1-410-476-11	INDUCTOR 33UH	
L304	1-410-476-11	INDUCTOR 33UH	
L501	1-410-471-11	INDUCTOR 12UH	
L504	1-410-471-11	INDUCTOR 12UH	
L505	1-410-471-11	INDUCTOR 12UH	
L701	1-410-471-11	INDUCTOR 12UH	
L1001	1-414-042-21	INDUCTOR 18UH	
L1002	1-414-042-21	INDUCTOR 18UH	
L1003	1-414-042-21	INDUCTOR 18UH	
L1004	1-414-042-21	INDUCTOR 18UH	
L1005	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1006	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1007	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1008	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1009	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1010	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1011	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1012	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1013	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1014	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1015	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1016	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1017	1-410-204-31	INDUCTOR CHIP 10UH	
L1301	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1500	1-414-042-21	INDUCTOR 18UH	
L1501	1-410-204-31	INDUCTOR CHIP 10UH	
L1502	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1503	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1504	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1505	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1506	1-410-193-51	INDUCTOR CHIP 1.2UH	
L1507	1-414-042-21	INDUCTOR 18UH	
L1508	1-410-471-11	INDUCTOR 12UH	

A

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSISTOR>	
Q1	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q200	8-729-107-31	TRANSISTOR 2SC3545-T43	
Q215	8-729-216-22	TRANSISTOR 2SA1162-G	
Q307	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q310	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q311	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q314	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q315	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q317	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q318	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q321	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q322	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q323	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q324	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q325	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q326	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q327	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q328	8-729-901-00	TRANSISTOR DTC124EK	
Q329	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q351	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q352	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q353	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q354	8-729-027-31	TRANSISTOR DTA124EKA-T146	
Q355	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q356	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q357	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q358	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q359	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q504	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q506	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q507	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q508	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q509	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q510	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q511	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q512	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q513	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q514	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q515	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q516	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q517	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q518	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q519	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q520	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q525	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q526	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q527	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q528	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q529	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q530	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q531	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q532	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q533	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q534	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q535	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q536	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q537	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q538	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q539	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q540	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q541	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q542	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q543	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q544	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q545	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q546	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q547	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q548	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q549	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q550	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q551	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q552	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q553	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q554	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q555	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q556	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q557	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q558	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q559	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q560	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q561	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q562	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q563	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q564	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q565	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q566	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q567	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q568	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q569	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q570	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q571	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q572	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q573	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q574	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q575	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q576	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q577	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q578	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q579	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q580	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q581	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q582	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q583	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q584	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q585	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q586	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q587	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q588	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q589	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q590	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q591	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q592	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q593	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q594	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q595	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q596	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q597	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q598	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q599	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q600	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q601	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q602	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q603	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q604	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q605	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q606	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q607	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q608	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q609	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q612	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q613	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q614	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q615	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q616	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q701	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q703	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q704	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q705	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q706	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q710	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q711	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q712	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q713	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q714	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q715	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q716	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q717	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q718	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q719	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q720	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q721	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q722	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q723	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q724	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q725	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q726	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q727	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q728	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q729	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q730	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q731	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q732	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q733	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q734	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q735	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q736	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q737	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q738	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q739	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q740	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q741	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q742	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q743	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q744	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q745	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q746	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q747	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q748	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q749	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q750	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q751	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q752	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q753	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q754	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q755	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q759	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q760	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q761	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q763	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q764	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q765	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q766	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q767	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q768	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q769	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q770	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q771	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q772	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q773	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q774	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q775	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q776	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q777	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q778	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1003	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1004	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
Q1006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1008	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1009	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1011	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1012	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1013	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1014	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1015	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1016	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1017	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1018	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1019	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1020	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1305	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1306	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1307	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1308	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1309	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1310	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1311	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1312	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1313	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1314	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1315	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1316	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1318	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1319	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1320	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1321	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1322	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q1501	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1502	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1503	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1504	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1505	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
Q1506	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION		REMARK	
R8	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R9	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R10	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R13	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R20	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R26	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R41	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W
R42	1-216-041-00	METAL GLAZE	470	5%	1/10W
R43	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R62	1-216-025-91	METAL GLAZE	100	5%	1/10W
R68	1-216-025-91	METAL GLAZE	100	5%	1/10W
R79	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R84	1-216-659-11	METAL CHIP	2.2K	0.50%	1/10W
R89	1-216-013-00	METAL GLAZE	33	5%	1/10W
R98	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R99	1-216-025-91	METAL GLAZE	100	5%	1/10W
R177	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R178	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R179	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R180	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R181	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R182	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R183	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R219	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R270	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R271	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R272	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R273	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R274	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R275	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R276	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R277	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R278	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R279	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R280	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R281	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R282	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R283	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R284	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R285	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R286	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R287	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R288	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R289	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R290	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R291	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R292	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R293	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R294	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R295	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R296	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R297	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R298	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R299	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R300	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R301	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R440	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R441	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R442	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R443	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R444	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R445	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R446	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R447	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R448	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R449	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R450	1-216-073-00	METAL GLAZE	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R451	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R452	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R453	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R454	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R455	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R456	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R457	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R458	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R459	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R460	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R461	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R462	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R463	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R464	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R465	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R466	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R467	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R468	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R469	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R470	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R471	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R550	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R551	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R552	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R553	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R554	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1140	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1141	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1142	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1143	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1144	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1145	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1146	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1147	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1148	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1149	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1150	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1151	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1152	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1153	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1154	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1155	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1156	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1157	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1158	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1159	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1160	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1161	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1162	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1163	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1164	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1165	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1166	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1167	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1168	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1169	1-216-073-00	METAL GLAZE	10K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1170	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1171	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1215	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1216	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1217	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1218	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R100	1-216-025-91	METAL GLAZE	100	5%	1/10W
R101	1-216-013-00	METAL GLAZE	33	5%	1/10W
R102	1-216-013-00	METAL GLAZE	33	5%	1/10W
R103	1-216-013-00	METAL GLAZE	33	5%	1/10W
R104	1-216-013-00	METAL GLAZE	33	5%	1/10W
R105	1-216-013-00	METAL GLAZE	33	5%	1/10W
R106	1-216-013-00	METAL GLAZE	33	5%	1/10W
R108	1-216-013-00	METAL GLAZE	33	5%	1/10W
R109	1-216-013-00	METAL GLAZE	33	5%	1/10W
R112	1-216-009-00	METAL GLAZE	22	5%	1/10W
R113	1-216-013-00	METAL GLAZE	33	5%	1/10W
R114	1-216-013-00	METAL GLAZE	33	5%	1/10W
R115	1-216-013-00	METAL GLAZE	33	5%	1/10W
R116	1-216-013-00	METAL GLAZE	33	5%	1/10W
R117	1-216-013-00	METAL GLAZE	33	5%	1/10W
R118	1-216-013-00	METAL GLAZE	33	5%	1/10W
R119	1-216-013-00	METAL GLAZE	33	5%	1/10W
R120	1-216-013-00	METAL GLAZE	33	5%	1/10W
R121	1-216-013-00	METAL GLAZE	33	5%	1/10W
R122	1-216-013-00	METAL GLAZE	33	5%	1/10W
R123	1-216-009-00	METAL GLAZE	22	5%	1/10W
R124	1-216-009-00	METAL GLAZE	22	5%	1/10W
R125	1-216-009-00	METAL GLAZE	22	5%	1/10W
R126	1-216-009-00	METAL GLAZE	22	5%	1/10W
R127	1-216-009-00	METAL GLAZE	22	5%	1/10W
R128	1-216-009-00	METAL GLAZE	22	5%	1/10W
R129	1-216-009-00	METAL GLAZE	22	5%	1/10W
R130	1-216-009-00	METAL GLAZE	22	5%	1/10W
R132	1-216-013-00	METAL GLAZE	33	5%	1/10W
R133	1-216-013-00	METAL GLAZE	33	5%	1/10W
R135	1-216-009-00	METAL GLAZE	22	5%	1/10W
R136	1-216-009-00	METAL GLAZE	22	5%	1/10W
R137	1-216-009-00	METAL GLAZE	22	5%	1/10W
R138	1-216-009-00	METAL GLAZE	22	5%	1/10W
R139	1-216-009-00	METAL GLAZE	22	5%	1/10W
R141	1-216-013-00	METAL GLAZE	33	5%	1/10W
R142	1-216-009-00	METAL GLAZE	22	5%	1/10W
R143	1-216-009-00	METAL GLAZE	22	5%	1/10W
R144	1-216-009-00	METAL GLAZE	22	5%	1/10W
R145	1-216-009-00	METAL GLAZE	22	5%	1/10W
R146	1-216-009-00	METAL GLAZE	22	5%	1/10W
R148	1-216-013-00	METAL GLAZE	33	5%	1/10W
R149	1-216-009-00	METAL GLAZE	22	5%	1/10W
R150	1-216-009-00	METAL GLAZE	22	5%	1/10W
R151	1-216-009-00	METAL GLAZE	22	5%	1/10W
R153	1-216-017-91	METAL GLAZE	47	5%	1/10W
R154	1-216-009-00	METAL GLAZE	22	5%	1/10W
R156	1-216-013-00	METAL GLAZE	33	5%	1/10W
R160	1-216-013-00	METAL GLAZE	33	5%	1/10W
R161	1-216-013-00	METAL GLAZE	33	5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R162	1-216-013-00	METAL GLAZE 33	5% 1/10W
R163	1-216-013-00	METAL GLAZE 33	5% 1/10W
R164	1-216-013-00	METAL GLAZE 33	5% 1/10W
R165	1-216-013-00	METAL GLAZE 33	5% 1/10W
R166	1-216-009-00	METAL GLAZE 22	5% 1/10W
R167	1-216-009-00	METAL GLAZE 22	5% 1/10W
R168	1-216-009-00	METAL GLAZE 22	5% 1/10W
R169	1-216-009-00	METAL GLAZE 22	5% 1/10W
R170	1-216-013-00	METAL GLAZE 33	5% 1/10W
R171	1-216-013-00	METAL GLAZE 33	5% 1/10W
R173	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R184	1-216-025-91	METAL GLAZE 100	5% 1/10W
R185	1-216-025-91	METAL GLAZE 100	5% 1/10W
R186	1-216-025-91	METAL GLAZE 100	5% 1/10W
R187	1-216-025-91	METAL GLAZE 100	5% 1/10W
R188	1-216-025-91	METAL GLAZE 100	5% 1/10W
R189	1-216-025-91	METAL GLAZE 100	5% 1/10W
R199	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R200	1-216-013-00	METAL GLAZE 33	5% 1/10W
R201	1-216-295-91	CONDUCTOR, CHIP	
R202	1-216-295-91	CONDUCTOR, CHIP	
R203	1-216-685-11	METAL CHIP 27K	0.50%1/10W
R204	1-216-627-11	METAL CHIP 100	0.50%1/10W
R205	1-216-677-11	METAL CHIP 12K	0.50%1/10W
R208	1-216-699-11	METAL CHIP 100K	0.50%1/10W
R209	1-216-025-91	METAL GLAZE 100	5% 1/10W
R210	1-218-756-11	METAL CHIP 150K	0.50%1/10W
R211	1-216-645-11	METAL CHIP 560	0.50%1/10W
R212	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R215	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R216	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R217	1-216-689-11	METAL CHIP 39K	0.50%1/10W
R218	1-216-679-11	METAL CHIP 15K	0.50%1/10W
R219	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R220	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R221	1-216-692-11	METAL CHIP 51K	0.50%1/10W
R222	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R223	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R224	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R225	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R226	1-216-681-11	METAL CHIP 18K	0.50%1/10W
R227	1-216-686-11	METAL CHIP 30K	0.50%1/10W
R228	1-216-031-00	METAL GLAZE 180	5% 1/10W
R230	1-216-685-11	METAL CHIP 27K	0.50%1/10W
R231	1-216-683-11	METAL CHIP 22K	0.50%1/10W
R232	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R235	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R236	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R237	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R238	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R239	1-216-025-91	METAL GLAZE 100	5% 1/10W
R240	1-216-295-91	CONDUCTOR, CHIP	
R241	1-216-295-91	CONDUCTOR, CHIP	
R242	1-216-295-91	CONDUCTOR, CHIP	
R243	1-216-660-11	METAL CHIP 2.4K	0.50%1/10W
R244	1-216-660-11	METAL CHIP 2.4K	0.50%1/10W
R245	1-216-037-00	METAL GLAZE 330	5% 1/10W
R246	1-216-295-91	CONDUCTOR, CHIP	
R247	1-216-675-11	METAL CHIP 10K	0.50%1/10W
R248	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R249	1-216-675-11	METAL CHIP 10K	0.50%1/10W
R250	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R251	1-216-675-11	METAL CHIP 10K	0.50%1/10W
R252	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R253	1-216-037-00	METAL GLAZE 330	5% 1/10W
R254	1-216-295-91	CONDUCTOR, CHIP	
R255	1-216-295-91	CONDUCTOR, CHIP	
R256	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R257	1-216-660-11	METAL CHIP 2.4K	0.50%1/10W
R258	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R259	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R260	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R261	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R262	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R263	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R264	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R265	1-216-639-11	METAL CHIP 330	0.50%1/10W
R266	1-216-295-91	CONDUCTOR, CHIP	
R267	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R268	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R269	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R309	1-216-025-91	METAL GLAZE 100	5% 1/10W
R310	1-216-025-91	METAL GLAZE 100	5% 1/10W
R311	1-216-025-91	METAL GLAZE 100	5% 1/10W
R312	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R313	1-216-699-11	METAL CHIP 100K	0.50%1/10W
R314	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R315	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R316	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R317	1-216-033-00	METAL GLAZE 220	5% 1/10W
R318	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R319	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R326	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R327	1-216-105-91	METAL GLAZE 220K	5% 1/10W
R335	1-216-699-11	METAL CHIP 100K	0.50%1/10W
R336	1-216-099-00	METAL GLAZE 120K	5% 1/10W
R339	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
R341	1-216-624-11	METAL CHIP 75	0.50%1/10W
R342	1-216-624-11	METAL CHIP 75	0.50%1/10W
R344	1-216-661-11	METAL CHIP 2.7K	0.50%1/10W
R346	1-216-687-11	METAL CHIP 33K	0.50%1/10W
R347	1-216-681-11	METAL CHIP 18K	0.50%1/10W
R348	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R350	1-216-675-11	METAL CHIP 10K	0.50%1/10W
R352	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R353	1-216-675-11	METAL CHIP 10K	0.50%1/10W
R361	1-216-687-11	METAL CHIP 33K	0.50%1/10W
R362	1-216-681-11	METAL CHIP 18K	0.50%1/10W
R363	1-216-681-11	METAL CHIP 18K	0.50%1/10W
R364	1-216-687-11	METAL CHIP 33K	0.50%1/10W
R365	1-216-033-00	METAL GLAZE 220	5% 1/10W
R366	1-216-295-91	CONDUCTOR, CHIP	

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REF.NO.	PART NO.	DESCRIPTION		REMARK
R367	1-216-295-91	CONDUCTOR, CHIP		
R368	1-216-295-91	CONDUCTOR, CHIP		
R369	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R370	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R371	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R372	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R373	1-216-690-11	METAL CHIP	43K	0.50%1/10W
R375	1-216-639-11	METAL CHIP	330	0.50%1/10W
R376	1-218-756-11	METAL CHIP	150K	0.50%1/10W
R378	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R379	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R380	1-216-643-11	METAL CHIP	470	0.50%1/10W
R383	1-218-772-11	METAL CHIP	680K	0.50%1/10W
R384	1-216-679-11	METAL CHIP	15K	0.50%1/10W
R385	1-216-646-11	METAL CHIP	620	0.50%1/10W
R387	1-216-121-91	METAL GLAZE	1M	5% 1/10W
R388	1-216-121-91	METAL GLAZE	1M	5% 1/10W
R389	1-216-121-91	METAL GLAZE	1M	5% 1/10W
R392	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R393	1-218-775-11	METAL CHIP	910K	0.50%1/10W
R394	1-216-687-11	METAL CHIP	33K	0.50%1/10W
R395	1-216-295-91	CONDUCTOR, CHIP		
R396	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R399	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R400	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R404	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R405	1-216-683-11	METAL CHIP	22K	0.50%1/10W
R406	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R407	1-216-683-11	METAL CHIP	22K	0.50%1/10W
R408	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R409	1-216-683-11	METAL CHIP	22K	0.50%1/10W
R411	1-216-645-11	METAL CHIP	560	0.50%1/10W
R412	1-216-645-11	METAL CHIP	560	0.50%1/10W
R413	1-216-645-11	METAL CHIP	560	0.50%1/10W
R414	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R415	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R416	1-216-652-11	METAL CHIP	1.1K	0.50%1/10W
R417	1-216-652-11	METAL CHIP	1.1K	0.50%1/10W
R436	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R437	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R438	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R501	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R502	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R503	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R504	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R505	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R506	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R507	1-216-639-11	METAL CHIP	330	0.50%1/10W
R508	1-216-639-11	METAL CHIP	330	0.50%1/10W
R509	1-216-639-11	METAL CHIP	330	0.50%1/10W
R510	1-216-639-11	METAL CHIP	330	0.50%1/10W
R511	1-216-639-11	METAL CHIP	330	0.50%1/10W
R512	1-216-639-11	METAL CHIP	330	0.50%1/10W
R513	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R514	1-216-658-11	METAL CHIP	2K	0.50%1/10W
R515	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R516	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R517	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R518	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R519	1-216-639-11	METAL CHIP	330	0.50%1/10W
R520	1-216-639-11	METAL CHIP	330	0.50%1/10W
R521	1-216-639-11	METAL CHIP	330	0.50%1/10W
R522	1-216-639-11	METAL CHIP	330	0.50%1/10W
R523	1-216-639-11	METAL CHIP	330	0.50%1/10W
R524	1-216-639-11	METAL CHIP	330	0.50%1/10W
R525	1-216-641-11	METAL CHIP	390	0.50%1/10W
R526	1-216-641-11	METAL CHIP	390	0.50%1/10W
R527	1-216-641-11	METAL CHIP	390	0.50%1/10W
R528	1-216-641-11	METAL CHIP	390	0.50%1/10W
R529	1-216-641-11	METAL CHIP	390	0.50%1/10W
R530	1-216-641-11	METAL CHIP	390	0.50%1/10W
R531	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R532	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R533	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R534	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R535	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R536	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R537	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R538	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R539	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R540	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R541	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R542	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R543	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R544	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R545	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R546	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R547	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R548	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R549	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R555	1-216-639-11	METAL CHIP	330	0.50%1/10W
R561	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R562	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R563	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R564	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R565	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R566	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R567	1-216-639-11	METAL CHIP	330	0.50%1/10W
R568	1-216-639-11	METAL CHIP	330	0.50%1/10W
R569	1-216-639-11	METAL CHIP	330	0.50%1/10W
R570	1-216-639-11	METAL CHIP	330	0.50%1/10W
R571	1-216-639-11	METAL CHIP	330	0.50%1/10W
R572	1-216-639-11	METAL CHIP	330	0.50%1/10W
R573	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R574	1-216-658-11	METAL CHIP	2K	0.50%1/10W
R575	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R576	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R577	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R578	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R579	1-216-639-11	METAL CHIP	330	0.50%1/10W
R580	1-216-639-11	METAL CHIP	330	0.50%1/10W
R581	1-216-639-11	METAL CHIP	330	0.50%1/10W

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REF.NO.	PART NO.	DESCRIPTION		REMARK
R582	1-216-639-11	METAL CHIP	330	0.50%1/10W
R583	1-216-639-11	METAL CHIP	330	0.50%1/10W
R584	1-216-639-11	METAL CHIP	330	0.50%1/10W
R585	1-216-641-11	METAL CHIP	390	0.50%1/10W
R586	1-216-641-11	METAL CHIP	390	0.50%1/10W
R587	1-216-641-11	METAL CHIP	390	0.50%1/10W
R588	1-216-641-11	METAL CHIP	390	0.50%1/10W
R589	1-216-641-11	METAL CHIP	390	0.50%1/10W
R590	1-216-641-11	METAL CHIP	390	0.50%1/10W
R591	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R592	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R593	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R594	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R595	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R596	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R597	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R598	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R599	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R600	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R601	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R602	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R603	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R604	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R605	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R606	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R607	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R608	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R609	1-216-639-11	METAL CHIP	330	0.50%1/10W
R611	1-216-646-11	METAL CHIP	620	0.50%1/10W
R612	1-216-655-11	METAL CHIP	1.5K	0.50%1/10W
R613	1-216-649-11	METAL CHIP	820	0.50%1/10W
R614	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R615	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R616	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R617	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R618	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R619	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R620	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R621	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R622	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R623	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R624	1-216-639-11	METAL CHIP	330	0.50%1/10W
R625	1-216-639-11	METAL CHIP	330	0.50%1/10W
R626	1-216-639-11	METAL CHIP	330	0.50%1/10W
R627	1-216-639-11	METAL CHIP	330	0.50%1/10W
R628	1-216-639-11	METAL CHIP	330	0.50%1/10W
R629	1-216-639-11	METAL CHIP	330	0.50%1/10W
R630	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R632	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R633	1-216-658-11	METAL CHIP	2K	0.50%1/10W
R634	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R635	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R636	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R637	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R638	1-216-639-11	METAL CHIP	330	0.50%1/10W
R639	1-216-639-11	METAL CHIP	330	0.50%1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK
R640	1-216-639-11	METAL CHIP	330	0.50%1/10W
R641	1-216-639-11	METAL CHIP	330	0.50%1/10W
R642	1-216-639-11	METAL CHIP	330	0.50%1/10W
R643	1-216-639-11	METAL CHIP	330	0.50%1/10W
R645	1-216-641-11	METAL CHIP	390	0.50%1/10W
R646	1-216-641-11	METAL CHIP	390	0.50%1/10W
R647	1-216-641-11	METAL CHIP	390	0.50%1/10W
R648	1-216-641-11	METAL CHIP	390	0.50%1/10W
R649	1-216-641-11	METAL CHIP	390	0.50%1/10W
R650	1-216-641-11	METAL CHIP	390	0.50%1/10W
R651	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R652	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R653	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R654	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R655	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R656	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R657	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R658	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R659	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R660	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R661	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R662	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R663	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R664	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R665	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R666	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R667	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R668	1-216-675-11	METAL CHIP	10K	0.50%1/10W
R669	1-216-639-11	METAL CHIP	330	0.50%1/10W
R694	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R695	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R696	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R697	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R698	1-216-659-11	METAL CHIP	2.2K	0.50%1/10W
R699	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R701	1-216-295-91	CONDUCTOR, CHIP		
R702	1-216-295-91	CONDUCTOR, CHIP		
R703	1-216-035-00	METAL GLAZE	270	5% 1/10W
R704	1-216-645-11	METAL CHIP	560	0.50%1/10W
R705	1-216-025-91	METAL GLAZE	100	5% 1/10W
R709	1-216-295-91	CONDUCTOR, CHIP		
R710	1-216-295-91	CONDUCTOR, CHIP		
R711	1-216-295-91	CONDUCTOR, CHIP		
R712	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R713	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R714	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R715	1-216-093-00	METAL GLAZE	68K	5% 1/10W
R716	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R717	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R718	1-216-689-11	METAL GLAZE	39K	5% 1/10W
R725	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R726	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R727	1-216-077-00	METAL GLAZE	15K	5% 1/10W
R728	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R729	1-216-077-00	METAL GLAZE	15K	5% 1/10W
R730	1-216-077-00	METAL GLAZE	15K	5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R731	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R732	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R733	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R734	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R735	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R736	1-216-295-91	CONDUCTOR, CHIP	
R737	1-216-295-91	CONDUCTOR, CHIP	
R738	1-216-295-91	CONDUCTOR, CHIP	
R739	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R740	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R741	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R742	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R743	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R745	1-216-635-11	METAL CHIP 220	0.50%1/10W
R749	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R750	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R751	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R752	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R753	1-216-647-11	METAL CHIP 680	0.50%1/10W
R754	1-216-641-11	METAL CHIP 390	0.50%1/10W
R755	1-216-640-11	METAL CHIP 360	0.50%1/10W
R756	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R757	1-216-624-11	METAL CHIP 75	0.50%1/10W
R758	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R759	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R765	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R766	1-216-295-91	CONDUCTOR, CHIP	
R767	1-216-295-91	CONDUCTOR, CHIP	
R770	1-216-624-11	METAL CHIP 75	0.50%1/10W
R783	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R784	1-216-295-91	CONDUCTOR, CHIP	
R785	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R786	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R787	1-216-295-91	CONDUCTOR, CHIP	
R788	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R789	1-216-624-11	METAL CHIP 75	0.50%1/10W
R791	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R792	1-216-627-11	METAL CHIP 100	0.50%1/10W
R793	1-216-627-11	METAL CHIP 100	0.50%1/10W
R794	1-216-627-11	METAL CHIP 100	0.50%1/10W
R795	1-216-641-11	METAL CHIP 390	0.50%1/10W
R796	1-216-641-11	METAL CHIP 390	0.50%1/10W
R797	1-216-641-11	METAL CHIP 390	0.50%1/10W
R798	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R799	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R800	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R801	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R802	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R803	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R804	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R805	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R806	1-216-663-11	METAL CHIP 3.3K	0.50%1/10W
R807	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R808	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R809	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R810	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R811	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R812	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R813	1-216-651-11	METAL CHIP 1K	0.50%1/10W
R814	1-216-639-11	METAL CHIP 330	0.50%1/10W
R815	1-216-639-11	METAL CHIP 330	0.50%1/10W
R816	1-216-639-11	METAL CHIP 330	0.50%1/10W
R817	1-216-639-11	METAL CHIP 330	0.50%1/10W
R818	1-216-639-11	METAL CHIP 330	0.50%1/10W
R819	1-216-639-11	METAL CHIP 330	0.50%1/10W
R820	1-216-639-11	METAL CHIP 330	0.50%1/10W
R821	1-216-639-11	METAL CHIP 330	0.50%1/10W
R822	1-216-639-11	METAL CHIP 330	0.50%1/10W
R823	1-216-639-11	METAL CHIP 330	0.50%1/10W
R824	1-216-639-11	METAL CHIP 330	0.50%1/10W
R825	1-216-639-11	METAL CHIP 330	0.50%1/10W
R826	1-216-627-11	METAL CHIP 100	0.50%1/10W
R827	1-216-627-11	METAL CHIP 100	0.50%1/10W
R828	1-216-627-11	METAL CHIP 100	0.50%1/10W
R829	1-216-627-11	METAL CHIP 100	0.50%1/10W
R830	1-216-627-11	METAL CHIP 100	0.50%1/10W
R831	1-216-627-11	METAL CHIP 100	0.50%1/10W
R832	1-216-641-11	METAL CHIP 390	0.50%1/10W
R833	1-216-641-11	METAL CHIP 390	0.50%1/10W
R834	1-216-641-11	METAL CHIP 390	0.50%1/10W
R835	1-216-641-11	METAL CHIP 390	0.50%1/10W
R836	1-216-641-11	METAL CHIP 390	0.50%1/10W
R837	1-216-641-11	METAL CHIP 390	0.50%1/10W
R838	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R839	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R840	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R841	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R842	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R843	1-216-668-11	METAL CHIP 5.1K	0.50%1/10W
R844	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R845	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R846	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R847	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R848	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R849	1-216-665-11	METAL CHIP 3.9K	0.50%1/10W
R851	1-216-641-11	METAL CHIP 390	0.50%1/10W
R853	1-216-641-11	METAL CHIP 390	0.50%1/10W
R855	1-216-641-11	METAL CHIP 390	0.50%1/10W
R857	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R858	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R859	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R860	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R861	1-216-017-91	METAL GLAZE 47	5% 1/10W
R862	1-216-017-91	METAL GLAZE 47	5% 1/10W
R863	1-216-017-91	METAL GLAZE 47	5% 1/10W
R864	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R865	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R866	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R867	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R868	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R869	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R870	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK
R871	1-216-341-11	METAL OXIDE 0.22	5% 1W F
R872	1-216-341-11	METAL OXIDE 0.22	5% 1W F
R873	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R874	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R875	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R883	1-216-643-11	METAL CHIP 470	0.50% 1/10W
R884	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R885	1-216-643-11	METAL CHIP 470	0.50% 1/10W
R888	1-216-643-11	METAL CHIP 470	0.50% 1/10W
R891	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R893	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R897	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R899	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R909	1-216-691-11	METAL CHIP 47K	0.50% 1/10W
R910	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R911	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R912	1-216-682-11	METAL CHIP 20K	0.50% 1/10W
R913	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R914	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R915	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R916	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R919	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R920	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R922	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R923	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R927	1-216-651-11	METAL CHIP 1K	0.50% 1/10W
R931	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R932	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R933	1-216-619-11	METAL CHIP 47	0.50% 1/10W
R934	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R935	1-216-624-11	METAL CHIP 75	0.50% 1/10W
R936	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R937	1-216-295-91	CONDUCTOR, CHIP	
R938	1-216-685-11	METAL CHIP 27K	0.50% 1/10W
R939	1-216-679-11	METAL CHIP 15K	0.50% 1/10W
R944	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R945	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R946	1-216-699-11	METAL CHIP 100K	0.50% 1/10W
R972	1-216-649-11	METAL CHIP 820	0.50% 1/10W
R973	1-216-649-11	METAL CHIP 820	0.50% 1/10W
R974	1-216-041-00	METAL GLAZE 470	5% 1/10W
R975	1-216-295-91	CONDUCTOR, CHIP	
R977	1-216-671-11	METAL CHIP 6.8K	0.50% 1/10W
R978	1-216-671-11	METAL CHIP 6.8K	0.50% 1/10W
R979	1-216-671-11	METAL CHIP 6.8K	0.50% 1/10W
R980	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R981	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R982	1-216-659-11	METAL CHIP 2.2K	0.50% 1/10W
R986	1-216-027-00	METAL GLAZE 120	5% 1/10W
R987	1-216-027-00	METAL GLAZE 120	5% 1/10W
R988	1-216-027-00	METAL GLAZE 120	5% 1/10W
R989	1-216-027-00	METAL GLAZE 120	5% 1/10W
R990	1-216-027-00	METAL GLAZE 120	5% 1/10W
R991	1-216-027-00	METAL GLAZE 120	5% 1/10W
R1001	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1002	1-216-079-00	METAL GLAZE 18K	5% 1/10W
R1003	1-216-001-00	METAL GLAZE 10	5% 1/10W
R1004	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R1005	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R1006	1-216-001-00	METAL GLAZE 10	5% 1/10W
R1007	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R1008	1-216-055-00	METAL GLAZE 1.8K	5% 1/10W
R1009	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R1010	1-216-045-00	METAL GLAZE 680	5% 1/10W
R1011	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1012	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1013	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1014	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1015	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1016	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1017	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R1018	1-216-653-11	METAL CHIP 1.2K	0.50% 1/10W
R1019	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1020	1-216-631-11	METAL CHIP 150	0.50% 1/10W
R1021	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1022	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1023	1-216-665-11	METAL CHIP 3.9K	0.50% 1/10W
R1024	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1025	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1026	1-216-017-91	METAL GLAZE 47	5% 1/10W
R1027	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R1028	1-216-023-00	METAL GLAZE 82	5% 1/10W
R1029	1-216-023-00	METAL GLAZE 82	5% 1/10W
R1030	1-216-023-00	METAL GLAZE 82	5% 1/10W
R1031	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1032	1-216-650-11	METAL CHIP 910	0.50% 1/10W
R1033	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1034	1-216-664-11	METAL CHIP 3.6K	0.50% 1/10W
R1035	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1036	1-216-650-11	METAL CHIP 910	0.50% 1/10W
R1037	1-216-664-11	METAL CHIP 3.6K	0.50% 1/10W
R1038	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1039	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R1040	1-216-663-11	METAL CHIP 3.3K	0.50% 1/10W
R1041	1-216-295-91	CONDUCTOR, CHIP	
R1042	1-216-634-11	METAL CHIP 200	0.50% 1/10W
R1043	1-216-656-11	METAL CHIP 1.6K	0.50% 1/10W
R1044	1-216-634-11	METAL CHIP 200	0.50% 1/10W
R1045	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1046	1-216-295-91	CONDUCTOR, CHIP	
R1047	1-216-017-91	METAL GLAZE 47	5% 1/10W
R1048	1-216-664-11	METAL CHIP 3.6K	0.50% 1/10W
R1049	1-216-650-11	METAL CHIP 910	0.50% 1/10W
R1050	1-216-077-00	METAL GLAZE 15K	5% 1/10W
R1051	1-216-075-00	METAL GLAZE 12K	5% 1/10W
R1052	1-216-661-11	METAL CHIP 2.7K	0.50% 1/10W
R1053	1-216-645-11	METAL CHIP 560	0.50% 1/10W
R1054	1-216-067-00	METAL GLAZE 5.6K	5% 1/10W
R1055	1-216-031-00	METAL GLAZE 180	5% 1/10W
R1056	1-216-039-00	METAL GLAZE 390	5% 1/10W
R1057	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R1058	1-216-049-91	METAL GLAZE 1K	5% 1/10W

REF.NO.	PART NO.	DESCRIPTION		REMARK	
R1059	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1060	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1061	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R1062	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1063	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1064	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1065	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R1066	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1067	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1068	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1069	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1070	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1071	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1072	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1073	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1074	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1075	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1076	1-216-025-91	METAL GLAZE	100	5%	1/10W
R1077	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1078	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1079	1-216-653-11	METAL CHIP	1.2K	0.50%	1/10W
R1080	1-216-295-91	CONDUCTOR, CHIP			
R1081	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1082	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1083	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1084	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1085	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1086	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1087	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1088	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1089	1-216-133-00	METAL GLAZE	3.3M	5%	1/10W
R1090	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1091	1-216-644-11	METAL CHIP	510	0.50%	1/10W
R1092	1-216-627-11	METAL CHIP	100	0.50%	1/10W
R1093	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1094	1-216-631-11	METAL CHIP	150	0.50%	1/10W
R1095	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1096	1-216-019-00	METAL GLAZE	56	5%	1/10W
R1097	1-216-009-00	METAL GLAZE	22	5%	1/10W
R1098	1-216-039-00	METAL GLAZE	390	5%	1/10W
R1099	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R1100	1-216-661-11	METAL CHIP	2.7K	0.50%	1/10W
R1101	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R1102	1-216-031-00	METAL GLAZE	180	5%	1/10W
R1103	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R1104	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R1105	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1106	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R1107	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1108	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1110	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1111	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1112	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1113	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1114	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1115	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1116	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1117	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1118	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1119	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1120	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1121	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1122	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1123	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1124	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1125	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1126	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1127	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1128	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1129	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1130	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1131	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1132	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1133	1-216-017-91	METAL GLAZE	47	5%	1/10W
R1134	1-216-607-11	METAL CHIP	15	0.50%	1/10W
R1135	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1200	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1201	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R1202	1-216-663-11	METAL CHIP	3.3K	0.50%	1/10W
R1203	1-216-645-11	METAL CHIP	560	0.50%	1/10W
R1204	1-216-687-11	METAL CHIP	33K	0.50%	1/10W
R1205	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1206	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1207	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1208	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1210	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1211	1-216-697-91	METAL CHIP	82K	0.50%	1/10W
R1212	1-216-697-91	METAL CHIP	82K	0.50%	1/10W
R1213	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1214	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R1219	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R1220	1-216-689-11	METAL GLAZE	39K	5%	1/10W
R1221	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R1222	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R1223	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1224	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1225	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1226	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1227	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1228	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1229	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1230	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1231	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1232	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R1233	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1234	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1235	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1236	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1237	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R1238	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1301	1-216-681-11	METAL CHIP	18K	0.50%	1/10W
R1302	1-216-677-11	METAL CHIP	12K	0.50%	1/10W

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REF.NO.	PART NO.	DESCRIPTION		REMARK
R1303	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1304	1-216-653-11	METAL CHIP	1.2K	0.50%1/10W
R1305	1-216-635-11	METAL CHIP	220	0.50%1/10W
R1306	1-216-635-11	METAL CHIP	220	0.50%1/10W
R1307	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1308	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1309	1-216-035-00	METAL GLAZE	270	5% 1/10W
R1310	1-216-649-11	METAL CHIP	820	0.50%1/10W
R1311	1-216-624-11	METAL CHIP	75	0.50%1/10W
R1312	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1313	1-216-685-11	METAL CHIP	27K	0.50%1/10W
R1314	1-216-640-11	METAL CHIP	360	0.50%1/10W
R1315	1-216-677-11	METAL CHIP	12K	0.50%1/10W
R1316	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R1317	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1318	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R1319	1-216-677-11	METAL CHIP	12K	0.50%1/10W
R1320	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1321	1-216-647-11	METAL CHIP	680	0.50%1/10W
R1322	1-216-623-11	METAL CHIP	68	0.50%1/10W
R1323	1-216-649-11	METAL CHIP	820	0.50%1/10W
R1324	1-216-677-11	METAL CHIP	12K	0.50%1/10W
R1325	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R1326	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1327	1-216-631-11	METAL CHIP	150	0.50%1/10W
R1328	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1329	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R1330	1-216-677-11	METAL CHIP	12K	0.50%1/10W
R1331	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1332	1-216-662-11	METAL CHIP	3K	0.50%1/10W
R1333	1-216-649-11	METAL CHIP	820	0.50%1/10W
R1334	1-216-635-11	METAL CHIP	220	0.50%1/10W
R1335	1-216-641-11	METAL CHIP	390	0.50%1/10W
R1336	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1337	1-216-685-11	METAL CHIP	27K	0.50%1/10W
R1338	1-216-677-11	METAL CHIP	12K	0.50%1/10W
R1339	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R1340	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1341	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1342	1-216-647-11	METAL CHIP	680	0.50%1/10W
R1343	1-216-647-11	METAL CHIP	680	0.50%1/10W
R1344	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1345	1-216-697-91	METAL CHIP	82K	0.50%1/10W
R1346	1-216-667-11	METAL CHIP	4.7K	0.50%1/10W
R1500	1-216-657-11	METAL CHIP	1.8K	0.50%1/10W
R1501	1-216-117-00	METAL GLAZE	680K	5% 1/10W
R1506	1-216-017-91	METAL GLAZE	47	5% 1/10W
R1507	1-216-079-00	METAL GLAZE	18K	5% 1/10W
R1508	1-216-077-00	METAL GLAZE	15K	5% 1/10W
R1509	1-216-025-91	METAL GLAZE	100	5% 1/10W
R1510	1-216-055-00	METAL GLAZE	1.8K	5% 1/10W
R1511	1-216-001-00	METAL GLAZE	10	5% 1/10W
R1512	1-216-645-11	METAL CHIP	560	0.50%1/10W
R1513	1-216-663-11	METAL CHIP	3.3K	0.50%1/10W
R1514	1-216-041-00	METAL GLAZE	470	5% 1/10W
R1515	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R1516	1-216-077-00	METAL GLAZE	15K	5% 1/10W
R1517	1-216-067-00	METAL GLAZE	5.6K	5% 1/10W
R1518	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
R1519	1-216-649-11	METAL CHIP	820	0.50%1/10W
R1520	1-216-001-00	METAL GLAZE	10	5% 1/10W
R1521	1-216-295-91	CONDUCTOR, CHIP		
R1523	1-216-653-11	METAL CHIP	1.2K	0.50%1/10W
R1524	1-216-651-11	METAL CHIP	1K	0.50%1/10W
R1525	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R1526	1-216-295-91	CONDUCTOR, CHIP		
R1527	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R1528	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R1529	1-216-033-00	METAL GLAZE	220	5% 1/10W
R1530	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R1531	1-216-295-91	CONDUCTOR, CHIP		
R1532	1-216-033-00	METAL GLAZE	220	5% 1/10W
R1533	1-216-133-00	METAL GLAZE	3.3M	5% 1/10W
R1534	1-216-644-11	METAL CHIP	510	0.50%1/10W
R1535	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
R1541	1-216-699-11	METAL CHIP	100K	0.50%1/10W
R1542	1-216-661-11	METAL CHIP	2.7K	0.50%1/10W
R1543	1-216-031-00	METAL GLAZE	180	5% 1/10W
R1544	1-216-057-00	METAL GLAZE	2.2K	5% 1/10W
R1545	1-216-071-00	METAL GLAZE	8.2K	5% 1/10W
R1548	1-218-755-11	METAL CHIP	130K	0.50%1/10W
R1549	1-216-113-00	METAL GLAZE	470K	5% 1/10W
R1550	1-216-113-00	METAL GLAZE	470K	5% 1/10W
R1551	1-216-037-00	METAL GLAZE	330	5% 1/10W
R1552	1-216-073-00	METAL GLAZE	10K	5% 1/10W
R1553	1-216-697-91	METAL CHIP	82K	0.50%1/10W
R1554	1-216-121-91	METAL GLAZE	1M	5% 1/10W
R1555	1-216-121-91	METAL GLAZE	1M	5% 1/10W
R1556	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R1557	1-216-089-91	METAL GLAZE	47K	5% 1/10W
R1558	1-216-295-91	CONDUCTOR, CHIP		
R1563	1-216-295-91	CONDUCTOR, CHIP		
R1564	1-218-761-11	METAL CHIP	240K	0.50%1/10W
R1565	1-216-681-11	METAL CHIP	18K	0.50%1/10W
R1566	1-216-113-00	METAL GLAZE	470K	5% 1/10W
R1567	1-216-653-11	METAL CHIP	1.2K	0.50%1/10W
R1568	1-216-049-91	METAL GLAZE	1K	5% 1/10W
R1569	1-247-871-11	CARBON	47K	5% 1/4W
R1570	1-216-025-91	METAL GLAZE	100	5% 1/10W

<VARIABLE RESISTOR>

RV701	1-238-087-11	RES, ADJ CERMET	1K
RV703	1-238-090-11	RES, ADJ CERMET	10K
RV704	1-238-087-11	RES, ADJ CERMET	1K
RV705	1-238-087-11	RES, ADJ CERMET	1K
RV706	1-238-087-11	RES, ADJ CERMET	1K
RV1001	1-238-240-11	RES, ADJ, CERMET	220
RV1002	1-238-240-11	RES, ADJ, CERMET	220
RV1301	1-238-086-11	RES, ADJ, CERMET	470
RV1302	1-238-086-11	RES, ADJ, CERMET	470

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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<TEST PIN>

REF.NO.	PART NO.	DESCRIPTION	REMARK
TP1	1-535-757-11	CHIP, CHECKER	
TP2	1-535-757-11	CHIP, CHECKER	
TP3	1-535-757-11	CHIP, CHECKER	
TP4	1-535-757-11	CHIP, CHECKER	
TP5	1-535-757-11	CHIP, CHECKER	
TP6	1-535-757-11	CHIP, CHECKER	
TP7	1-535-757-11	CHIP, CHECKER	
TP8	1-535-757-11	CHIP, CHECKER	
TP9	1-535-757-11	CHIP, CHECKER	
TP10	1-535-757-11	CHIP, CHECKER	
TP11	1-535-757-11	CHIP, CHECKER	
TP12	1-535-757-11	CHIP, CHECKER	
TP13	1-535-757-11	CHIP, CHECKER	
TP14	1-535-757-11	CHIP, CHECKER	
TP71	1-535-757-11	CHIP, CHECKER	
TP72	1-535-757-11	CHIP, CHECKER	
TP73	1-535-757-11	CHIP, CHECKER	
TP101	1-535-757-11	CHIP, CHECKER	
TP102	1-535-757-11	CHIP, CHECKER	
TP103	1-535-757-11	CHIP, CHECKER	
TP104	1-535-757-11	CHIP, CHECKER	
TP105	1-535-757-11	CHIP, CHECKER	
TP106	1-535-757-11	CHIP, CHECKER	
TP107	1-535-757-11	CHIP, CHECKER	
TP109	1-535-757-11	CHIP, CHECKER	
TP111	1-535-757-11	CHIP, CHECKER	
TP112	1-535-757-11	CHIP, CHECKER	
TP200	1-535-757-11	CHIP, CHECKER	
TP301	1-535-757-11	CHIP, CHECKER	
TP302	1-535-757-11	CHIP, CHECKER	
TP303	1-535-757-11	CHIP, CHECKER	
TP304	1-535-757-11	CHIP, CHECKER	
TP305	1-535-757-11	CHIP, CHECKER	
TP306	1-535-757-11	CHIP, CHECKER	
TP307	1-535-757-11	CHIP, CHECKER	
TP501	1-535-757-11	CHIP, CHECKER	
TP502	1-535-757-11	CHIP, CHECKER	
TP503	1-535-757-11	CHIP, CHECKER	
TP701	1-535-757-11	CHIP, CHECKER	
TP702	1-535-757-11	CHIP, CHECKER	
TP703	1-535-757-11	CHIP, CHECKER	
TP704	1-535-757-11	CHIP, CHECKER	
TP705	1-535-757-11	CHIP, CHECKER	
TP706	1-535-757-11	CHIP, CHECKER	
TP707	1-535-757-11	CHIP, CHECKER	
TP708	1-535-757-11	CHIP, CHECKER	
TP709	1-535-757-11	CHIP, CHECKER	
TP710	1-535-757-11	CHIP, CHECKER	
TP711	1-535-757-11	CHIP, CHECKER	
TP712	1-535-757-11	CHIP, CHECKER	
TP713	1-535-757-11	CHIP, CHECKER	
TP714	1-535-757-11	CHIP, CHECKER	
TP1001	1-535-757-11	CHIP, CHECKER	
TP1500	1-535-757-11	CHIP, CHECKER	
TP1501	1-535-757-11	CHIP, CHECKER	
TP1502	1-535-757-11	CHIP, CHECKER	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X250	1-760-040-11	VIBRATOR, CRYSTAL	
X251	1-767-640-11	VIBRATOR, CRYSTAL	
X301	1-577-611-11	OSCILALTOR, CERAMIC	
X302	1-567-504-11	OSCILLATOR, CRYSTAL	
X303	1-567-505-11	OSCILLATOR, CRYSTAL	
X701	1-527-722-00	VIBRATOR, CRYSTAL	
X1001	1-579-057-11	VIBRATOR, CRYSTAL	
X1002	1-527-722-00	VIBRATOR, CRYSTAL	
X1003	1-577-611-11	OSCILALTOR, CERAMIC	
X1004	1-579-583-11	VIBRATOR, CERAMIC	
X1500	1-527-722-00	VIBRATOR, CRYSTAL	
X1501	1-579-057-11	VIBRATOR, CRYSTAL	
X1502	1-579-583-11	VIBRATOR, CERAMIC	
X1503	1-577-611-11	OSCILALTOR, CERAMIC	

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8-933-169-00 G BOARD, COMPLETE

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4-382-854-11 SCREW (M3X10), P, SW (+)
(Q601, Q602, D651, D652)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C600 ⚠	1-104-705-51	FILM	0.1MF	20%	250V	
C601 ⚠	1-113-511-11	FILM	0.47MF	20%	275V	
C602 ⚠	1-113-915-51	CERAMIC	0.001MF	20%	250V	
C603 ⚠	1-113-915-51	CERAMIC	0.001MF	20%	250V	
C604	1-125-533-11	ELECT(BLOCK)	100MF	20%	400V	
C605	1-162-117-00	CERAMIC	100PF	10%	500V	
C606	1-162-117-00	CERAMIC	100PF	10%	500V	
C607	1-136-169-00	FILM	0.22MF	5%	50V	
C608	1-136-169-00	FILM	0.22MF	5%	50V	
C609	1-136-165-00	FILM	0.1MF	5%	50V	
C610	1-136-165-00	FILM	0.1MF	5%	50V	
C611	1-162-117-00	CERAMIC	100PF	10%	500V	
C612	1-115-348-81	FILM	0.0056MF	2%	630V	
C650	1-126-960-11	ELECT	1MF	20%	50V	
C651	1-164-344-11	CERAMIC CHIP	0.068MF	10%	25V	
C652	1-163-143-00	CERAMIC CHIP	0.0012MF	5%	50V	
C653	1-107-874-11	ELECT	10000MF	20%	6.3V	
C654	1-107-877-11	ELECT	1000MF	20%	10V	
C655	1-126-927-11	ELECT	2200MF	20%	10V	
C656	1-126-926-11	ELECT	1000MF	20%	10V	
C657	1-107-914-11	ELECT	1000MF	20%	25V	
C658	1-107-888-11	ELECT	47MF	20%	25V	
C661	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C662	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C663	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C664	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C670	1-104-664-11	ELECT	47MF	20%	25V	

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REF.NO.	PART NO.	DESCRIPTION				REMARK
C671	1-104-664-11	ELECT	47MF	20%	25V	
C680	1-126-960-11	ELECT	1MF	20%	50V	
		<CONNECTOR>				
CN601 ⚠*	1-580-689-11	PIN, CONNECTOR (PC BOARD) 4P				
CN602	1-506-476-11	PIN, CONNECTOR 11P				
CN603	1-564-001-11	PIN, CONNECTOR 2P				
		<DIODE>				
D601 ⚠	8-719-045-35	DIODE S1WB60B-S-TR				
D602	8-719-045-99	ZENER DIODE UDZ-TE-17-2.2B				
D603	8-719-045-99	ZENER DIODE UDZ-TE-17-2.2B				
D604	8-719-404-49	DIODE MA111				
D605	8-719-045-99	ZENER DIODE UDZ-TE-17-2.2B				
D606	8-719-045-99	ZENER DIODE UDZ-TE-17-2.2B				
D607	8-719-404-49	DIODE MA111				
D651	8-719-048-60	DIODE F10P03QL				
D652	8-719-510-13	DIODE D10SC4MR				
D653	8-719-510-02	DIODE D1NS4				
D654	8-719-510-02	DIODE D1NS4				
D655	8-719-160-68	ZENER DIODE RD18FB2				
D671	8-719-051-01	DIODE CL-170HR-CD-T				
D672	8-719-053-31	DIODE CL-170YG-CD-T				
D673	8-719-404-49	DIODE MA111				
		<FUSE>				
F601	1-576-228-11	FUSE (H.B.C.)				
	1-533-223-11	CLIP, FUSE				
	*4-052-843-01	COVER, FUSE				
		<FERRITE BEAD>				
FB601	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH				
FB602	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH				
FB603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH				
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH				
		<IC>				
IC650	8-759-198-31	IC UPC1093J-1-T				
IC670	8-759-100-93	IC UPC393G2				
IC671	8-759-144-82	IC UPC2405HF				
IC672	8-759-346-27	IC LM45BIM3X				
		<COIL>				
L651	1-414-158-11	INDUCTOR 2.2UH				
L652	1-412-523-41	INDUCTOR 6.8UH				
L653	1-412-523-41	INDUCTOR 6.8UH				
		<TRANSISTOR>				
Q601 ⚠	1-202-881-51	TRANSISTOR 2SC4833S-P2				
Q602	8-729-026-13	TRANSISTOR 2SC4833S-P2				
Q650	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				
Q660	8-729-019-42	TRANSISTOR 2SK2084STL				
Q661	8-729-019-42	TRANSISTOR 2SK2084STL				
Q662	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				
Q663	8-729-019-91	TRANSISTOR 2SJ238				
Q664	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				
Q670	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R				
Q671	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q672	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		<RESISTOR>				
R600	1-202-846-00	SOLID	470K	20%	1/2W	
R601	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R602	1-220-318-11	METAL GLAZE	270K	5%	1/4W	
R603	1-220-318-11	METAL GLAZE	270K	5%	1/4W	
R604	1-220-318-11	METAL GLAZE	270K	5%	1/4W	
R605	1-220-318-11	METAL GLAZE	270K	5%	1/4W	
R606	1-220-233-11	METAL GLAZE	3.9	10%	1/4W	
R607	1-220-233-11	METAL GLAZE	3.9	10%	1/4W	
R610	1-212-942-00	FUSIBLE	2.2	5%	1/2W	F
R650	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R651	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R655	1-216-097-91	METAL GLAZE	100K	5%	1/10W	
R656	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R657	1-216-655-11	METAL CHIP	1.5K	0.50%	1/10W	
R658	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R659	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R661	1-219-116-11	RES, META PLATE	0.01			
R662	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R663	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R664	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R665	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R666	1-207-616-00	WIREWOUND	0.47	10%	2W	F
R667	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R668	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R669	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R670	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R671	1-216-393-00	WIREWOUND	2.2	10%	2W	F
R672	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R673	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R674	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R676	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R677	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R678	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R679	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R680	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R681	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R682	1-216-025-91	METAL GLAZE	100	5%	1/10W	
R683	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R684	1-216-049-91	METAL GLAZE	1K	5%	1/10W	
R685	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R686	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R687	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R688	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R690	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R691	1-216-049-91	METAL GLAZE	1K	5%	1/10W	

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<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T601 ⚠	1-424-117-11	FILTER, LINE	
T602	1-427-864-11	TRANSFORMER, CONVERTER (PRT)	
T603	1-429-291-11	TRANSFORMER, CONVERTER (PIT)	

<VARISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
VDR601	1-810-974-21	VARISTOR	

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*8-933-257-00 FRONT BLOCK ASSY
(H1/H2, J1/J2 BOARDS)
H1 BOARD, COMPLETE
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REF.NO.	PART NO.	DESCRIPTION	REMARK
C101	1-124-779-00	ELECT 10MF 20% 16V	

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
C102	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C103	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C104	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C105	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C106	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C107	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C108	1-163-243-11	CERAMIC CHIP 47PF 5% 50V	
C109	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C110	1-124-779-00	ELECT 10MF 20% 16V	
C111	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C112	1-163-235-11	CERAMIC CHIP 22PF 5% 50V	
C114	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C115	1-163-038-91	CERAMIC CHIP 0.1MF 25V	
C116	1-124-779-00	ELECT 10MF 20% 16V	
C117	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C118	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C119	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C120	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
C121	1-124-779-00	ELECT 10MF 20% 16V	
C122	1-124-779-00	ELECT 10MF 20% 16V	
C123	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C124	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C130	1-124-778-00	ELECT 22MF 20% 6.3V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN101	1-774-117-21	PIN, CONNECTOR 12P	
CN103	1-774-198-11	CONNECTOR, FPC (ZIF) 10P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D113	8-719-800-76	DIODE 1SS226	
D114	8-719-800-76	DIODE 1SS226	
D115	8-719-800-76	DIODE 1SS226	
D116	8-719-800-76	DIODE 1SS226	
D117	8-719-800-76	DIODE 1SS226	
D118	8-719-800-76	DIODE 1SS226	
D119	8-719-800-76	DIODE 1SS226	
D120	8-719-404-49	DIODE MA111	
D121	8-719-404-49	DIODE MA111	
D122	8-719-404-49	DIODE MA111	
D123	8-719-404-49	DIODE MA111	
D124	8-719-404-49	DIODE MA111	
D125	8-719-404-49	DIODE MA111	
D126	8-719-404-49	DIODE MA111	
D127	8-719-404-49	DIODE MA111	
D128	8-719-033-86	DIODE CL-170D-CD-T	
D129	8-719-033-86	DIODE CL-170D-CD-T	
D130	8-719-033-86	DIODE CL-170D-CD-T	
D131	8-719-033-86	DIODE CL-170D-CD-T	
D132	8-719-033-86	DIODE CL-170D-CD-T	
D133	8-719-033-86	DIODE CL-170D-CD-T	
D134	8-719-033-86	DIODE CL-170D-CD-T	
D135	8-719-033-86	DIODE CL-170D-CD-T	
D136	8-719-033-86	DIODE CL-170D-CD-T	
D137	8-719-033-86	DIODE CL-170D-CD-T	
D138	8-719-033-86	DIODE CL-170D-CD-T	
D139	8-719-033-86	DIODE CL-170D-CD-T	
D140	8-719-033-86	DIODE CL-170D-CD-T	
D141	8-719-033-86	DIODE CL-170D-CD-T	
D142	8-719-053-31	DIODE CL-170YG-CD-T	
D143	8-719-033-86	DIODE CL-170D-CD-T	
D144	8-719-033-86	DIODE CL-170D-CD-T	
D145	8-719-033-86	DIODE CL-170D-CD-T	
D147	8-719-033-86	DIODE CL-170D-CD-T	
D148	8-719-033-86	DIODE CL-170D-CD-T	
D149	8-719-404-49	DIODE MA111	
D150	8-719-158-15	ZENER DIODE RD5.6SB	
D151	8-719-158-15	ZENER DIODE RD5.6SB	
D152	8-719-158-15	ZENER DIODE RD5.6SB	
D153	8-719-158-15	ZENER DIODE RD5.6SB	
D154	8-719-158-15	ZENER DIODE RD5.6SB	
D155	8-719-158-15	ZENER DIODE RD5.6SB	
D156	8-719-158-15	ZENER DIODE RD5.6SB	
D157	8-719-158-15	ZENER DIODE RD5.6SB	
D158	8-719-158-15	ZENER DIODE RD5.6SB	
D159	8-719-158-15	ZENER DIODE RD5.6SB	
D160	8-719-158-15	ZENER DIODE RD5.6SB	
D161	8-719-158-15	ZENER DIODE RD5.6SB	
D162	8-719-158-15	ZENER DIODE RD5.6SB	
D163	8-719-158-15	ZENER DIODE RD5.6SB	
D164	8-719-158-15	ZENER DIODE RD5.6SB	
D165	8-719-158-15	ZENER DIODE RD5.6SB	
D166	8-719-158-15	ZENER DIODE RD5.6SB	
D167	8-719-158-15	ZENER DIODE RD5.6SB	
D168	8-719-158-15	ZENER DIODE RD5.6SB	
D169	8-719-033-86	DIODE CL-170D-CD-T	
D170	8-719-404-49	DIODE MA111	

H1 H2

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<IC>	
IC102	8-759-467-84	IC MC68HC05P6SC442119B	
IC103	8-759-342-19	IC NJU3716M-T2	
IC104	8-759-342-19	IC NJU3716M-T2	
IC105	8-748-025-08	RAY CATCHER ELEMENT SBX8025-H	
		<COIL>	
L101	1-408-785-21	INDUCTOR CHIP	47UH
		<TRANSISTOR>	
Q101	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q102	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q103	8-729-027-46	TRANSISTOR DTC114YKA-T146	
		<RESISTOR>	
R101	1-216-017-91	METAL GLAZE 47	5% 1/10W
R102	1-216-017-91	METAL GLAZE 47	5% 1/10W
R103	1-216-017-91	METAL GLAZE 47	5% 1/10W
R104	1-216-017-91	METAL GLAZE 47	5% 1/10W
R105	1-216-017-91	METAL GLAZE 47	5% 1/10W
R106	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R107	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R108	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R109	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R110	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R112	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R113	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R114	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R115	1-216-025-91	METAL GLAZE 100	5% 1/10W
R117	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R118	1-216-133-00	METAL GLAZE 3.3M	5% 1/10W
R119	1-216-133-00	METAL GLAZE 3.3M	5% 1/10W
R120	1-216-133-00	METAL GLAZE 3.3M	5% 1/10W
R121	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R122	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R123	1-216-033-00	METAL GLAZE 220	5% 1/10W
R124	1-216-033-00	METAL GLAZE 220	5% 1/10W
R125	1-216-033-00	METAL GLAZE 220	5% 1/10W
R126	1-216-033-00	METAL GLAZE 220	5% 1/10W
R127	1-216-033-00	METAL GLAZE 220	5% 1/10W
R128	1-216-033-00	METAL GLAZE 220	5% 1/10W
R129	1-216-033-00	METAL GLAZE 220	5% 1/10W
R130	1-216-033-00	METAL GLAZE 220	5% 1/10W
R131	1-216-033-00	METAL GLAZE 220	5% 1/10W
R132	1-216-033-00	METAL GLAZE 220	5% 1/10W
R133	1-216-033-00	METAL GLAZE 220	5% 1/10W
R134	1-216-033-00	METAL GLAZE 220	5% 1/10W
R135	1-216-033-00	METAL GLAZE 220	5% 1/10W
R136	1-216-033-00	METAL GLAZE 220	5% 1/10W
R138	1-216-033-00	METAL GLAZE 220	5% 1/10W
R139	1-216-041-00	METAL GLAZE 470	5% 1/10W
R140	1-216-041-00	METAL GLAZE 470	5% 1/10W
R141	1-216-041-00	METAL GLAZE 470	5% 1/10W
R143	1-216-041-00	METAL GLAZE 470	5% 1/10W
R144	1-216-041-00	METAL GLAZE 470	5% 1/10W
R145	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R146	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R147	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R148	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R149	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R150	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R151	1-216-025-91	METAL GLAZE 100	5% 1/10W
R153	1-216-033-00	METAL GLAZE 220	5% 1/10W
R154	1-216-033-00	METAL GLAZE 220	5% 1/10W
R155	1-216-025-91	METAL GLAZE 100	5% 1/10W
R156	1-216-025-91	METAL GLAZE 100	5% 1/10W
R157	1-216-025-91	METAL GLAZE 100	5% 1/10W
R158	1-216-025-91	METAL GLAZE 100	5% 1/10W
R159	1-216-025-91	METAL GLAZE 100	5% 1/10W
R160	1-216-025-91	METAL GLAZE 100	5% 1/10W
R161	1-216-025-91	METAL GLAZE 100	5% 1/10W
R162	1-216-025-91	METAL GLAZE 100	5% 1/10W
		<SWITCH>	
S101	1-762-357-11	SWITCH (PWR)	
S102	1-762-357-11	SWITCH (DSP)	
S103	1-762-357-11	SWITCH (TST)	
S104	1-762-357-11	SWITCH (LD)	
S105	1-762-357-11	SWITCH (OUT)	
S106	1-570-724-11	SWITCH, SLIDE (TV/DJ/OFF)	
		<CRYSTAL>	
X101	1-567-192-11	OSCILLATOR, CERAMIC	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*8-933-257-00	FRONT BLOCK ASSY (H1/H2, J1/J2 BOARDS) H2 BOARD, COMPLETE ******************************	
	*4-337-475-00	HOLDER (D), LED	
		<CAPACITOR>	
C201	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		<CONNECTOR>	
CN203	1-774-198-11	CONNECTOR, FPC (ZIF) 10P	
		<DIODE>	
D201	8-719-404-49	DIODE MA111	
D202	8-719-404-49	DIODE MA111	
D203	8-719-404-49	DIODE MA111	

REF.NO.	PART NO.	DESCRIPTION				REMARK
D204	8-719-404-49	DIODE MA111				
D205	8-719-404-49	DIODE MA111				
D206	8-719-404-49	DIODE MA111				
D208	8-719-404-49	DIODE MA111				
D209	8-719-404-49	DIODE MA111				
D210	8-719-404-49	DIODE MA111				
D211	8-719-404-49	DIODE MA111				
D212	8-719-404-49	DIODE MA111				
D213	8-719-158-15	ZENER DIODE RD5.6SB				
D214	8-719-158-15	ZENER DIODE RD5.6SB				
D215	8-719-158-15	ZENER DIODE RD5.6SB				
D216	8-719-158-15	DIODE RD5.6SB				
D221	8-719-033-86	DIODE CL-170D-CD-T				
D223	8-719-033-86	DIODE CL-170D-CD-T				
D224	8-719-033-86	DIODE CL-170D-CD-T				
D226	8-719-042-48	DIODE SLR-33DC3F				
D227	8-719-042-48	DIODE SLR-33DC3F				
D228	8-719-042-48	DIODE SLR-33DC3F				
D229	8-719-042-48	DIODE SLR-33DC3F				
D230	8-719-042-48	DIODE SLR-33DC3F				
D231	8-719-042-48	DIODE SLR-33DC3F				
D238	8-719-158-15	ZENER DIODE RD5.6SB				
D239	8-719-158-15	ZENER DIODE RD5.6SB				
D240	8-719-158-15	ZENER DIODE RD5.6SB				
D241	8-719-158-15	ZENER DIODE RD5.6SB				
D242	8-719-158-15	ZENER DIODE RD5.6SB				
D243	8-719-158-15	ZENER DIODE RD5.6SB				
	<TRANSISTOR>					
Q201	8-729-027-46	TRANSISTOR DTC114YKA-T146				
Q202	8-729-027-46	TRANSISTOR DTC114YKA-T146				
Q203	8-729-027-46	TRANSISTOR DTC114YKA-T146				
	<RESISTOR>					
R201	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R202	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R203	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R204	1-216-089-91	METAL GLAZE	47K	5%	1/10W	
R205	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R207	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R208	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R209	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R210	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R211	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R212	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R213	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R214	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R215	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R216	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R217	1-216-033-00	METAL GLAZE	220	5%	1/10W	
	<SWITCH>					
S201	1-762-357-11	SWITCH (CL+)				
S202	1-762-357-11	SWITCH (CL–)				
S203	1-762-357-11	SWITCH (HV+)				
S204	1-762-357-11	SWITCH (HV–)				
S205	1-762-357-11	SWITCH (PC+)				
S206	1-762-357-11	SWITCH (PC–)				
S208	1-762-357-11	SWITCH (SHP)				
S209	1-762-357-11	SWITCH (STL)				
S210	1-762-357-11	SWITCH (VD1)				
S211	1-762-357-11	SWITCH (VD2)				
S212	1-762-357-11	SWITCH (VD3)				

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*8-933-256-00 PANEL ASSY (K1/K2 BOARDS)
K1 BOARD, COMPLETE
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REF.NO.	PART NO.	DESCRIPTION				REMARK
C701	1-126-157-11	ELECT	10MF	20%	16V	
	<CAPACITOR>					
C702	1-126-157-11	ELECT	10MF	20%	16V	
C703	1-126-157-11	ELECT	10MF	20%	16V	
C704	1-126-157-11	ELECT	10MF	20%	16V	
C705	1-126-157-11	ELECT	10MF	20%	16V	
C706	1-126-157-11	ELECT	10MF	20%	16V	
C707	1-124-589-11	ELECT	47MF	20%	16V	
C708	1-124-589-11	ELECT	47MF	20%	16V	
C709	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C710	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C711	1-124-248-00	ELECT	22MF	20%	35V	
C713	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C714	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C715	1-124-589-11	ELECT	47MF	20%	16V	
C716	1-124-589-11	ELECT	47MF	20%	16V	
C717	1-124-584-00	ELECT	100MF	20%	10V	
	<CONNECTOR>					
CN701	*1-764-093-21	PIN, CONNECTOR (PC BOARD) 8P				
	<DIODE>					
D701	8-719-800-76	DIODE 1SS226				
D702	8-719-800-76	DIODE 1SS226				
D703	8-719-800-76	DIODE 1SS226				
D704	8-719-800-76	DIODE 1SS226				
D705	8-719-800-76	DIODE 1SS226				
D706	8-719-800-76	DIODE 1SS226				
D707	8-719-158-15	ZENER DIODE RD5.6SB				
D708	8-719-158-15	ZENER DIODE RD5.6SB				
D709	8-719-404-49	DIODE MA111				
	<FERRITE BEAD>					
FB201	1-414-234-11	INDUCTOR, FERRITE BEAD				

K1 K2

REF.NO.	PART NO.	DESCRIPTION			REMARK
FB202	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB203	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB204	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB205	1-414-234-11	INDUCTOR, FERRITE BEAD			
FB206	1-414-234-11	INDUCTOR, FERRITE BEAD			
	<IC>				
IC2101	8-759-287-89	IC MM1113XFF			
IC2102	8-759-287-89	IC MM1113XFF			
	<JACK>				
J701	1-778-014-11	JACK BLOCK, PIN 2P			
J702	1-778-014-11	JACK BLOCK, PIN 2P			
J703	1-778-014-11	JACK BLOCK, PIN 2P			
J704	1-778-014-11	JACK BLOCK, PIN 2P			
J705	1-507-800-00	JACK			
J706	1-507-800-00	JACK			
	<TRANSISTOR>				
Q702	8-729-027-59	TRANSISTOR DTC144EKA-T146			
Q703	8-729-027-59	TRANSISTOR DTC144EKA-T146			
Q704	8-729-027-38	TRANSISTOR DTA144EKA-T146			
Q705	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q710	8-729-027-46	TRANSISTOR DTC114YKA-T146			
Q711	8-729-027-46	TRANSISTOR DTC114YKA-T146			
	<RESISTOR>				
R701	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R702	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R703	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R704	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R705	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R706	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R707	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R708	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R709	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R710	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R711	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R712	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R713	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R714	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R715	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R716	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R719	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R720	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R721	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R722	1-216-025-91	METAL GLAZE	100	5%	1/10W
R723	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R724	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R725	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R726	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R727	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R728	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R729	1-216-073-00	METAL GLAZE	10K	5%	1/10W

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*8-933-256-00 PANEL ASSY (K1/K2 BOARDS)
K2 BOARD, COMPLETE
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REF.NO.	PART NO.	DESCRIPTION			REMARK
C801	1-124-589-11	ELECT	47MF	20%	16V
	<CAPACITOR>				
C802	1-124-589-11	ELECT	47MF	20%	16V
C803	1-124-589-11	ELECT	47MF	20%	16V
C804	1-124-589-11	ELECT	47MF	20%	16V
C805	1-124-589-11	ELECT	47MF	20%	16V
C806	1-124-589-11	ELECT	47MF	20%	16V
C807	1-124-589-11	ELECT	47MF	20%	16V
C808	1-124-589-11	ELECT	47MF	20%	16V
C809	1-124-589-11	ELECT	47MF	20%	16V
C810	1-124-589-11	ELECT	47MF	20%	16V
C811	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C812	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C813	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C814	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C815	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C816	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C817	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C818	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C819	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C820	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C821	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C822	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C823	1-124-589-11	ELECT	47MF	20%	16V
C824	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C825	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C826	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C827	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C828	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C829	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C830	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C831	1-124-589-11	ELECT	47MF	20%	16V
C832	1-124-589-11	ELECT	47MF	20%	16V
C833	1-124-589-11	ELECT	47MF	20%	16V
C834	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C835	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C836	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
	<CONNECTOR>				
CN801	*1-562-748-11	HOUSING, CONNECTOR 15P			
CN802	*1-562-748-11	HOUSING, CONNECTOR 15P			
CN803	*1-562-748-11	HOUSING, CONNECTOR 15P			
CN812	1-774-939-11	SOCKET, DIN (4P)			
CN813	1-774-939-11	SOCKET, DIN (4P)			

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>	
D801	8-719-800-76	DIODE 1SS226	
D802	8-719-800-76	DIODE 1SS226	
D803	8-719-800-76	DIODE 1SS226	
D804	8-719-800-76	DIODE 1SS226	
D805	8-719-800-76	DIODE 1SS226	
D806	8-719-800-76	DIODE 1SS226	
D807	8-719-800-76	DIODE 1SS226	
D808	8-719-800-76	DIODE 1SS226	
D809	8-719-800-76	DIODE 1SS226	
D810	8-719-911-19	DIODE 1SS119-25	
D811	8-719-911-19	DIODE 1SS119-25	
D812	8-719-911-19	DIODE 1SS119-25	
D813	8-719-911-19	DIODE 1SS119-25	
		<IC>	
IC801	8-759-711-32	IC NJM2245M	
IC802	8-759-711-32	IC NJM2245M	
IC803	8-759-287-89	IC MM1113XFF	
IC804	8-759-387-75	IC TC7W00F(TE12R)	
IC805	8-759-387-75	IC TC7W00F(TE12R)	
IC806	8-759-242-68	IC TC7W32F	
IC807	8-759-242-74	IC TC7W04F	
IC808	8-759-360-07	IC BA7657F-E2	
		<TRANSISTOR>	
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		<RESISTOR>	
R801	1-216-624-11	METAL CHIP 75	0.50%1/10W
R802	1-216-624-11	METAL CHIP 75	0.50%1/10W
R803	1-216-624-11	METAL CHIP 75	0.50%1/10W
R804	1-216-624-11	METAL CHIP 75	0.50%1/10W
R805	1-216-624-11	METAL CHIP 75	0.50%1/10W
R806	1-216-624-11	METAL CHIP 75	0.50%1/10W
R810	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R811	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R813	1-216-624-11	METAL CHIP 75	0.50%1/10W
R815	1-216-624-11	METAL CHIP 75	0.50%1/10W
R817	1-216-624-11	METAL CHIP 75	0.50%1/10W
R818	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R819	1-216-053-00	METAL GLAZE 1.5K	5% 1/10W
R820	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R821	1-216-624-11	METAL CHIP 75	0.50%1/10W
R822	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R823	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R824	1-216-667-11	METAL CHIP 4.7K	0.50%1/10W
R825	1-216-624-11	METAL CHIP 75	0.50%1/10W
R826	1-216-624-11	METAL CHIP 75	0.50%1/10W
R827	1-216-624-11	METAL CHIP 75	0.50%1/10W
R828	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R829	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R830	1-216-627-11	METAL CHIP 100	0.50%1/10W
R831	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R832	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R833	1-216-025-91	METAL GLAZE 100	5% 1/10W
		<SWITCH>	
S801	1-762-669-11	SWITCH, SLIDE (75TERM/OPEN)	
S802	1-692-467-11	SWITCH, SLIDE (RGB/YPBPR)	
S803	1-692-467-11	SWITCH, SLIDE (AUTO/SOG)	
S804	1-692-467-11	SWITCH, SLIDE (SEP/COMP)	
S805	1-692-467-11	SWITCH, SLIDE (RGB/YPBPR)	
		<TERMINAL BOARD>	
TB801	1-694-093-11	TERMINAL BOARD ASSY, I/O	
TB802	1-694-094-11	TERMINAL BOARD ASSY, I/O	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	*8-933-257-00	FRONT BLOCK ASSY (H1/H2, J1/J2 BOARD) J1 BOARD, COMPLETE ****************************	
CN301	1-774-198-11	CONNECTOR, FPC (ZIF) 10P	
		<DIODE>	
D301	8-719-404-49	DIODE MA111	
D302	8-719-404-49	DIODE MA111	
D303	8-719-404-49	DIODE MA111	
D304	8-719-404-49	DIODE MA111	
D305	8-719-404-49	DIODE MA111	
D306	8-719-404-49	DIODE MA111	
		<RESISTOR>	
R301	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R302	1-216-089-91	METAL GLAZE 47K	5% 1/10W
		<SWITCH>	
S301	1-572-921-11	SWITCH, KEY BOARD (HC+)	
S302	1-572-921-11	SWITCH, KEY BOARD (HC–)	
S303	1-572-921-11	SWITCH, KEY BOARD (VC+)	
S304	1-572-921-11	SWITCH, KEY BOARD (VC–)	
S305	1-572-921-11	SWITCH, KEY BOARD (MENU)	
S306	1-572-921-11	SWITCH, KEY BOARD (ENT)	

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J2

Les composants identifiés per un tramé et une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
	* 8-933-257-00	FRONT BLOCK ASSY (H1/H2, J1/J2 BOARD) J2 BOARD, COMPLETE ******************************	
CN401	1-774-198-11	CONNECTOR, FPC (ZIF) 10P	
	<DIODE>		
D401	8-719-404-49	DIODE MA111	
D402	8-719-404-49	DIODE MA111	
D403	8-719-404-49	DIODE MA111	
D404	8-719-404-49	DIODE MA111	
D405	8-719-404-49	DIODE MA111	
D406	8-719-404-49	DIODE MA111	
	<RESISTOR>		
R401	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R402	1-216-089-91	METAL GLAZE 47K 5%	1/10W
	<SWITCH>		
S401	1-572-921-11	SWITCH, KEY BOARD (HS+)	
S402	1-572-921-11	SWITCH, KEY BOARD (HS–)	
S403	1-572-921-11	SWITCH, KEY BOARD (VS+)	
S404	1-572-921-11	SWITCH, KEY BOARD (VS–)	
S405	1-572-921-11	SWITCH, KEY BOARD (ZM+)	
S406	1-572-921-11	SWITCH, KEY BOARD (ZM–)	
	MISCELLANEOUS **********************		
	⚠ 1-251-050-21	INLET, AC	
	⚠ 1-534-827-14	CORD, POWER (10A/125V)	
	⚠ 1-590-226-11	CABLE (SMF-400)	
	⚠ 1-698-756-11	MOTOR, DC FAN	

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